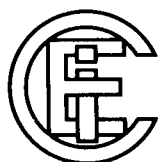


# NORME INTERNATIONALE INTERNATIONAL STANDARD

CEI  
IEC  
86-2



Commission Electrotechnique Internationale  
International Electrotechnical Commission  
Международная Электротехническая Комиссия

## Piles électriques

Deuxième partie: Feuilles de spécifications

## Primary batteries

Part 2: Specification sheets

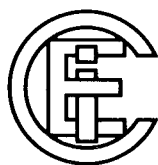
Publication  
86-2

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# NORME INTERNATIONALE INTERNATIONAL STANDARD

CEI  
IEC  
86-2

Sixième édition  
Sixth edition  
1987



Commission Electrotechnique Internationale

International Electrotechnical Commission

Международная Электротехническая Комиссия

## Piles électriques

Deuxième partie Feuilles de spécifications

## Primary batteries

Part 2 Specification sheets

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Withdrawn

## COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

## PILES ÉLECTRIQUES

## Deuxième partie: Feuilles de spécifications

## PRÉAMBULE

- 1) Les décisions ou accords officiels de la C E I en ce qui concerne les questions techniques préparés par des Comités d Etudes ou sont représentés tous les Comités nationaux s intéressant à ces questions expriment dans la plus grande mesure possible un accord international sur les sujets examinés
- 2) Ces décisions constituent des recommandations internationales et sont agréées comme telles par les Comités nationaux
- 3) Dans le but d encourager l unification internationale la C E I exprime le vœu que tous les Comités nationaux adoptent dans leurs règles nationales le texte de la recommandation de la C E I dans la mesure où les conditions nationales le permettent. Toute divergence entre la recommandation de la C E I et la règle nationale correspondante doit dans la mesure du possible être indiquée en termes clairs dans cette dernière
- 4) La C E I n a fixé aucune procédure concernant le marquage comme indication d approbation et sa responsabilité n est pas engagée quand il est déclaré qu un matériel est conforme à l une de ses recommandations

## PRÉFACE

La présente norme a été établie par le Comité d Etudes n° 35 de la C E I, Piles.

Elle constitue la sixième édition de la Publication 86-2 de la C E I et remplace la cinquième édition (1982) et son premier complément: Publication 86-2A (1984)

Le texte de la présente norme est issu de la cinquième édition de la Publication 86-2A et des documents suivants:

| Règle des Six Mois | Rapports de vote |
|--------------------|------------------|
| 35(BC)355          | 35(BC)381        |
| 35(BC)356          | 35(BC)382        |
| 35(BC)359          | 35(BC)385        |
| 35(BC)361          | 35(BC)387        |
| 35(BC)362          | 35(BC)388        |
| 35(BC)363          | 35(BC)389        |
| 35(BC)364          | 35(BC)390        |
| 35(BC)365          | 35(BC)391        |
| 35(BC)366          | 35(BC)392        |
| 35(BC)367          | 35(BC)393        |
| 35(BC)368          | 35(BC)394        |
| 35(BC)369          | 35(BC)395        |
| 35(BC)370          | 35(BC)396        |
| 35(BC)371          | 35(BC)397        |
| 35(BC)372          | 35(BC)398        |
| 35(BC)373          | 35(BC)399        |

Les rapports de vote indiqués dans le tableau ci dessus donnent toute information sur le vote ayant abouti à l approbation de cette norme

La sixième édition de la Publication 86 de la C E I comprend:

- première partie: Généralités (Publication 86-1 de la C E I);
- deuxième partie: Feuilles de spécifications (Publication 86-2 de la C E I)

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**PRIMARY BATTERIES****Part 2: Specification sheets**

## FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters prepared by Technical Committees on which all the National Committees having a special interest therein are represented express, as nearly as possible, an international consensus of opinion on the subjects dealt with
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense
- 3) In order to promote international unification the IEC expresses the wish that all National Committees should adopt the text of the IEC recommendation for their national rules in so far as national conditions will permit. Any divergence between the IEC recommendation and the corresponding national rules should, as far as possible, be clearly indicated in the latter
- 4) The IEC has not laid down any procedure concerning marking as an indication of approval and has no responsibility when an item of equipment is declared to comply with one of its recommendations

## PREFACE

This standard has been prepared by IEC Technical Committee No. 35: Primary Cells and Batteries

It constitutes the sixth edition of IEC Publication 86-2 and replaces the fifth edition (1982) and its first supplement: Publication 86-2A (1984)

The text of this standard is based on the fifth edition, Publication 86-2A and the following documents:

| Six Months' Rule | Reports on Voting |
|------------------|-------------------|
| 35(CO)355        | 35(CO)381         |
| 35(CO)356        | 35(CO)382         |
| 35(CO)359        | 35(CO)385         |
| 35(CO)361        | 35(CO)387         |
| 35(CO)362        | 35(CO)388         |
| 35(CO)363        | 35(CO)389         |
| 35(CO)364        | 35(CO)390         |
| 35(CO)365        | 35(CO)391         |
| 35(CO)366        | 35(CO)392         |
| 35(CO)367        | 35(CO)393         |
| 35(CO)368        | 35(CO)394         |
| 35(CO)369        | 35(CO)395         |
| 35(CO)370        | 35(CO)396         |
| 35(CO)371        | 35(CO)397         |
| 35(CO)372        | 35(CO)398         |
| 35(CO)373        | 35(CO)399         |

Full information on the voting for the approval of this standard can be found in the Voting Reports indicated in the above table

This sixth edition of IEC Publication 86 consists of:

- Part 1: General (IEC Publication 86-1);
- Part 2: Specification Sheets (IEC Publication 86-2)

# Recueil et liste récapitulative des feuilles de spécifications

Le tableau ci-dessous donne une liste complète de toutes les feuilles de spécifications individuelles faisant partie de la présente édition (dans l'ordre dans lequel elles doivent être classées)

Spéc phys = Spécification physique

Spéc du couple = Spécification du couple

| Désignation et référence de la feuille |                | Date de publication | Désignation et référence de la feuille |                | Date de publication |
|----------------------------------------|----------------|---------------------|----------------------------------------|----------------|---------------------|
| R03                                    | Spéc phys      | Juillet 1982        | R25-4                                  | Spéc du couple | Juillet 1982        |
| R03                                    | Spéc du couple | Décembre 1986       | R40                                    | Spéc phys      | Août 1984           |
| LR03                                   | Spéc du couple | Décembre 1986       | R40                                    | Spéc du couple | Décembre 1980       |
| R1                                     | Spéc phys      | Décembre 1980       | 5R40                                   | Spéc phys      | Juillet 1982        |
| R1                                     | Spéc du couple | Juillet 1982        | 5AR40                                  | Spéc du couple | Juillet 1982        |
| LR1                                    | Spéc du couple | Juillet 1982        | R41                                    | Spéc phys      | Décembre 1986       |
| MR1                                    | Spéc du couple | Décembre 1986       | LR41                                   | Spéc du couple | Août 1984           |
| R6                                     | Spéc phys      | Décembre 1986       | MR41                                   | Spéc du couple | Décembre 1986       |
| R6C                                    | Spéc du couple | Décembre 1986       | NR41                                   | Spéc du couple | Décembre 1986       |
| R6P                                    | Spéc du couple | Décembre 1986       | PR41                                   | Spéc du couple | Août 1984           |
| R6S                                    | Spéc du couple | Décembre 1986       | SR41                                   | Spéc du couple | Décembre 1986       |
| LR6                                    | Spéc du couple | Août 1984           | TR41                                   | Spéc du couple | Décembre 1986       |
| R9                                     | Spéc phys      | Décembre 1986       | R42                                    | Spéc phys      | Août 1984           |
| LR9                                    | Spéc du couple | Août 1984           | MR42                                   | Spéc du couple | Décembre 1986       |
| MR9                                    | Spéc du couple | Juillet 1982        | NR42                                   | Spéc du couple | Décembre 1986       |
| NR9                                    | Spéc du couple | Juillet 1982        | SR42                                   | Spéc du couple | Décembre 1986       |
| 2R9                                    | Spéc phys      | Août 1984           | TR42                                   | Spéc du couple | Décembre 1986       |
| 2MR9                                   | Spéc du couple | Décembre 1986       | 4R42                                   | Spéc phys      | Décembre 1986       |
| 2R10                                   | Spéc phys      | Juillet 1982        | 4NR42                                  | Spéc du couple | Juillet 1982        |
| 2R10                                   | Spéc du couple | Août 1984           | R43                                    | Spéc phys      | Août 1984           |
| 3R12                                   | Spéc phys      | Juillet 1982        | LR43                                   | Spéc du couple | Août 1984           |
| 3R12                                   | Spéc du couple | Décembre 1980       | MR43                                   | Spéc du couple | Décembre 1986       |
| 3LR12                                  | Spéc du couple | Juillet 1982        | PR43                                   | Spéc du couple | Août 1984           |
| R14                                    | Spéc phys      | Décembre 1986       | SR43                                   | Spéc du couple | Décembre 1986       |
| R14C                                   | Spéc du couple | Décembre 1986       | TR43                                   | Spéc du couple | Décembre 1986       |
| R14P                                   | Spéc du couple | Décembre 1986       | R44                                    | Spéc phys      | Août 1984           |
| R14S                                   | Spéc du couple | Décembre 1986       | LR44                                   | Spéc du couple | Août 1984           |
| LR14                                   | Spéc du couple | Décembre 1986       | MR44                                   | Spéc du couple | Décembre 1986       |
| R20                                    | Spéc phys      | Décembre 1986       | NR44                                   | Spéc du couple | Décembre 1986       |
| R20C                                   | Spéc du couple | Décembre 1986       | PR44                                   | Spéc du couple | Août 1984           |
| R20P                                   | Spéc du couple | Décembre 1986       | SR44                                   | Spéc du couple | Décembre 1986       |
| R20S                                   | Spéc du couple | Décembre 1986       | TR44                                   | Spéc du couple | Décembre 1986       |
| LR20                                   | Spéc du couple | Décembre 1986       | 4R44                                   | Spéc phys      | Décembre 1986       |
| 3R20X                                  | Spéc phys      | Juillet 1982        | 4LR44                                  | Spéc du couple | Décembre 1986       |
| 3R20X                                  | Spéc du couple | Octobre 1977        | 4SR44                                  | Spéc du couple | Décembre 1986       |
| 3R25                                   | Spéc phys      | Juillet 1982        | R48                                    | Spéc phys      | Décembre 1986       |
| 3R25                                   | Spéc du couple | Juillet 1982        | MR48                                   | Spéc du couple | Décembre 1986       |
| 4R25X                                  | Spéc phys      | Juillet 1982        | NR48                                   | Spéc du couple | Décembre 1986       |
| 4R25X                                  | Spéc du couple | Août 1984           | PR48                                   | Spéc du couple | Août 1984           |
| 4R25Y                                  | Spéc phys      | Juillet 1982        | SR48                                   | Spéc du couple | Décembre 1986       |
| 4R25Y                                  | Spéc du couple | Août 1984           | TR48                                   | Spéc du couple | Décembre 1986       |
| 4R25-2                                 | Spéc phys      | Juillet 1982        | R50                                    | Spéc phys      | Décembre 1986       |
| 4R25-2                                 | Spéc du couple | Août 1984           | MR50                                   | Spéc du couple | Août 1984           |
| R25 4                                  | Spéc phys      | Juillet 1982        | NR50                                   | Spéc du couple | Août 1984           |



## Contents summary and specification sheet references

The table below gives a complete list of all the individual battery specification sheets forming part of the present edition (in the order in which they should be filed)

physical spec = physical specification

system spec = system specification

| Designation and sheet reference | Date of issue | Designation and sheet reference | Date of issue |
|---------------------------------|---------------|---------------------------------|---------------|
| R03 physical spec               | July 1982     | R25-4 system spec               | July 1982     |
| R03 system spec                 | December 1986 | R40 physical spec               | August 1984   |
| LR03 system spec                | December 1986 | R40 system spec                 | December 1980 |
| R1 physical spec                | December 1980 | 5R40 physical spec              | July 1982     |
| R1 system spec                  | July 1982     | 5AR40 system spec               | July 1982     |
| LR1 system spec                 | July 1982     | R41 physical spec               | December 1986 |
| MR1 system spec                 | December 1986 | LR41 system spec                | August 1984   |
| R6 physical spec                | December 1986 | MR41 system spec                | December 1986 |
| R6C system spec                 | December 1986 | NR41 system spec                | December 1986 |
| R6P system spec                 | December 1986 | PR41 system spec                | August 1984   |
| R6S system spec                 | December 1986 | SR41 system spec                | December 1986 |
| LR6 system spec                 | August 1984   | TR41 system spec                | December 1986 |
| R9 physical spec                | December 1986 | R42 physical spec               | August 1984   |
| LR9 system spec                 | August 1984   | MR42 system spec                | December 1986 |
| MR9 system spec                 | July 1982     | NR42 system spec                | December 1986 |
| NR9 system spec                 | July 1982     | SR42 system spec                | December 1986 |
| 2R9 physical spec               | August 1984   | TR42 system spec                | December 1986 |
| 2MR9 system spec                | December 1986 | 4R42 physical spec              | December 1986 |
| 2R10 physical spec              | July 1982     | 4NR42 system spec               | July 1982     |
| 2R10 system spec                | August 1984   | R43 physical spec               | August 1984   |
| 3R12 physical spec              | July 1982     | LR43 system spec                | August 1984   |
| 3R12 system spec                | December 1980 | MR43 system spec                | December 1986 |
| 3LR12 system spec               | July 1982     | PR43 system spec                | August 1984   |
| R14 physical spec               | December 1986 | SR43 system spec                | December 1986 |
| R14C system spec                | December 1986 | TR43 system spec                | December 1986 |
| R14P system spec                | December 1986 | R44 physical spec               | August 1984   |
| R14S system spec                | December 1986 | LR44 system spec                | August 1984   |
| LR14 system spec                | December 1986 | MR44 system spec                | December 1986 |
| R20 physical spec               | December 1986 | NR44 system spec                | December 1986 |
| R20C system spec                | December 1986 | PR44 system spec                | August 1984   |
| R20P system spec                | December 1986 | SR44 system spec                | December 1986 |
| R20S system spec                | December 1986 | TR44 system spec                | December 1986 |
| LR20 system spec                | December 1986 | 4R44 physical spec              | December 1986 |
| 3R20X physical spec             | July 1982     | 4LR44 system spec               | December 1986 |
| 3R20X system spec               | October 1977  | 4SR44 system spec               | December 1986 |
| 3R25 physical spec              | July 1982     | R48 physical spec               | December 1986 |
| 3R25 system spec                | July 1982     | MR48 system spec                | December 1986 |
| 4R25X physical spec             | July 1982     | NR48 system spec                | December 1986 |
| 4R25X system spec               | August 1984   | PR48 system spec                | August 1984   |
| 4R25Y physical spec             | July 1982     | SR48 system spec                | December 1986 |
| 4R25Y system spec               | August 1984   | TR48 system spec                | December 1986 |
| 4R25-2 physical spec            | July 1982     | R50 physical spec               | December 1986 |
| 4R25-2 system spec              | August 1984   | MR50 system spec                | August 1984   |
| R25-4 physical spec             | July 1982     | NR50 system spec                | August 1984   |

| Désignation et référence de la feuille |                | Date de publication | Désignation et référence de la feuille |                | Date de publication |
|----------------------------------------|----------------|---------------------|----------------------------------------|----------------|---------------------|
| R52                                    | Spéc phys      | Décembre 1986       | 2CR11108                               | Spéc du couple | Décembre 1986       |
| MR52                                   | Spéc du couple | Août 1984           | R1220                                  | Spéc phys      | Décembre 1986       |
| NR52                                   | Spéc du couple | Août 1984           | CR1220                                 | Spéc du couple | Décembre 1986       |
| R53                                    | Spéc phys      | Décembre 1986       | R1620                                  | Spéc phys      | Décembre 1986       |
| LR53                                   | Spéc du couple | Juillet 1982        | CR1620                                 | Spéc du couple | Décembre 1986       |
| R54                                    | Spéc phys      | Décembre 1986       | R2016                                  | Spéc phys      | Décembre 1986       |
| LR54                                   | Spéc du couple | Août 1984           | CR2016                                 | Spéc du couple | Décembre 1986       |
| MR54                                   | Spéc du couple | Décembre 1986       | R2020                                  | Spéc phys      | Décembre 1986       |
| SR54                                   | Spéc du couple | Décembre 1986       | CR2020                                 | Spéc du couple | Décembre 1986       |
| TR54                                   | Spéc du couple | Décembre 1986       | R2025                                  | Spéc phys      | Décembre 1986       |
| R55                                    | Spéc phys      | Août 1984           | CR2025                                 | Spéc du couple | Décembre 1986       |
| LR55                                   | Spéc du couple | Août 1984           | R2032                                  | Spéc phys      | Décembre 1986       |
| SR55                                   | Spéc du couple | Décembre 1986       | CR2032                                 | Spéc du couple | Décembre 1986       |
| TR55                                   | Spéc du couple | Décembre 1986       | R2320                                  | Spéc phys      | Décembre 1986       |
| R56                                    | Spéc phys      | Août 1984           | CR2320                                 | Spéc du couple | Décembre 1986       |
| LR56                                   | Spéc du couple | Août 1984           | R2420                                  | Spéc phys      | Décembre 1986       |
| SR56                                   | Spéc du couple | Décembre 1980       | CR2420                                 | Spéc du couple | Décembre 1986       |
| R57                                    | Spéc phys      | Août 1984           | R2425                                  | Spéc phys      | Décembre 1986       |
| SR57                                   | Spéc du couple | Décembre 1980       | CR2425                                 | Spéc du couple | Décembre 1986       |
| TR57                                   | Spéc du couple | Décembre 1986       | R2430                                  | Spéc phys      | Décembre 1986       |
| R58                                    | Spéc phys      | Août 1984           | CR2430                                 | Spéc du couple | Décembre 1986       |
| SR58                                   | Spéc du couple | Décembre 1986       | S4                                     | Spéc phys      | Juillet 1982        |
| TR58                                   | Spéc du couple | Décembre 1986       | S4                                     | Spéc du couple | Juillet 1982        |
| R59                                    | Spéc phys      | Août 1984           | 6S4                                    | Spéc phys      | Décembre 1986       |
| SR59                                   | Spéc du couple | Juillet 1982        | 6AS4                                   | Spéc du couple | Juillet 1982        |
| TR59                                   | Spéc du couple | Décembre 1986       | 6S6                                    | Spéc phys      | Décembre 1986       |
| R60                                    | Spéc phys      | Août 1984           | 6AS6                                   | Spéc du couple | Juillet 1982        |
| SR60                                   | Spéc du couple | Décembre 1986       | 10F15                                  | Spéc phys      | Juillet 1982        |
| TR60                                   | Spéc du couple | Décembre 1986       | 10F15                                  | Spéc du couple | Juillet 1982        |
| 6R61                                   | Spéc phys      | Décembre 1986       | 15F15                                  | Spéc phys      | Juillet 1982        |
| 6LR61                                  | Spéc du couple | Juillet 1982        | 15F15                                  | Spéc du couple | Juillet 1982        |
| R62                                    | Spéc phys      | Décembre 1986       | 4F16                                   | Spéc phys      | Juillet 1982        |
| <sup>1)</sup> R62                      | Spéc du couple | Décembre 1986       | 4F16                                   | Spéc du couple | Juillet 1982        |
| R63                                    | Spéc phys      | Décembre 1986       | 10F20                                  | Spéc phys      | Juillet 1982        |
| <sup>1)</sup> R63                      | Spéc du couple | Décembre 1986       | 10F20                                  | Spéc du couple | Juillet 1982        |
| R64                                    | Spéc phys      | Décembre 1986       | 15F20                                  | Spéc phys      | Juillet 1982        |
| <sup>1)</sup> R64                      | Spéc du couple | Décembre 1986       | 15F20                                  | Spéc du couple | Juillet 1982        |
| R65                                    | Spéc phys      | Décembre 1986       | 20F20                                  | Spéc phys      | Juillet 1982        |
| <sup>1)</sup> R65                      | Spéc du couple | Décembre 1986       | 20F20                                  | Spéc du couple | Juillet 1982        |
| R66                                    | Spéc phys      | Décembre 1986       | 6F22                                   | Spéc du couple | Août 1984           |
| <sup>1)</sup> R66                      | Spéc du couple | Décembre 1986       | 6F24                                   | Spéc phys      | Juillet 1982        |
| R67                                    | Spéc phys      | Décembre 1986       | 6F24                                   | Spéc du couple | Juillet 1982        |
| <sup>1)</sup> R67                      | Spéc du couple | Décembre 1986       | 45F40                                  | Spéc phys      | Juillet 1982        |
| R68                                    | Spéc phys      | Décembre 1986       | 45F40                                  | Spéc du couple | Juillet 1982        |
| <sup>1)</sup> R68                      | Spéc du couple | Décembre 1986       | 6F50-2                                 | Spéc phys      | Juillet 1982        |
| R69                                    | Spéc phys      | Décembre 1986       | 6F50-2                                 | Spéc du couple | Juillet 1982        |
| <sup>1)</sup> R69                      | Spéc du couple | Décembre 1986       | 6F100                                  | Spéc phys      | Juillet 1982        |
| R0772                                  | Spéc phys      | Décembre 1986       | 6F100                                  | Spéc du couple | Août 1984           |
| CR0772                                 | Spéc du couple | Décembre 1986       |                                        |                |                     |

<sup>1)</sup> A l'étude

| Designation and sheet reference |               | Date of issue | Designation and sheet reference |               | Date of issue |
|---------------------------------|---------------|---------------|---------------------------------|---------------|---------------|
| R52                             | physical spec | December 1986 | 2CR11108                        | system spec   | December 1986 |
| MR52                            | system spec   | August 1984   | R1220                           | physical spec | December 1986 |
| NR52                            | system spec   | August 1984   | CR1220                          | system spec   | December 1986 |
| R53                             | physical spec | December 1986 | R1620                           | physical spec | December 1986 |
| LR53                            | system spec   | July 1982     | CR1620                          | system spec   | December 1986 |
| R54                             | physical spec | December 1986 | R2016                           | physical spec | December 1986 |
| LR54                            | system spec   | August 1984   | CR2016                          | system spec   | December 1986 |
| MR54                            | system spec   | December 1986 | R2020                           | physical spec | December 1986 |
| SR54                            | system spec   | December 1986 | CR2020                          | system spec   | December 1986 |
| TR54                            | system spec   | December 1986 | R2025                           | physical spec | December 1986 |
| R55                             | physical spec | August 1984   | CR2025                          | system spec   | December 1986 |
| LR55                            | system spec   | August 1984   | R2032                           | physical spec | December 1986 |
| SR55                            | system spec   | December 1986 | CR2032                          | system spec   | December 1986 |
| TR55                            | system spec   | December 1986 | R2320                           | physical spec | December 1986 |
| R56                             | physical spec | August 1984   | CR2320                          | system spec   | December 1986 |
| LR56                            | system spec   | August 1984   | R2420                           | physical spec | December 1986 |
| SR56                            | system spec   | December 1980 | CR2420                          | system spec   | December 1986 |
| R57                             | physical spec | August 1984   | R2425                           | physical spec | December 1986 |
| SR57                            | system spec   | December 1980 | CR2425                          | system spec   | December 1986 |
| TR57                            | system spec   | December 1986 | R2430                           | physical spec | December 1986 |
| R58                             | physical spec | August 1984   | CR2430                          | system spec   | December 1986 |
| SR58                            | system spec   | December 1986 | S4                              | physical spec | July 1982     |
| TR58                            | system spec   | December 1986 | S4                              | system spec   | July 1982     |
| R59                             | physical spec | August 1984   | 6S4                             | physical spec | December 1986 |
| SR59                            | system spec   | July 1982     | 6AS4                            | system spec   | July 1982     |
| TR59                            | system spec   | December 1986 | 6S6                             | physical spec | December 1986 |
| R60                             | physical spec | August 1984   | 6AS6                            | system spec   | July 1982     |
| SR60                            | system spec   | December 1986 | 10F15                           | physical spec | July 1982     |
| TR60                            | system spec   | December 1986 | 10F15                           | system spec   | July 1982     |
| 6R61                            | physical spec | December 1986 | 15F15                           | physical spec | July 1982     |
| 6LR61                           | system spec   | July 1982     | 15F15                           | system spec   | July 1982     |
| R62                             | physical spec | December 1986 | 4F16                            | physical spec | July 1982     |
| <sup>1)</sup> R62               | system spec   | December 1986 | 4F16                            | system spec   | July 1982     |
| R63                             | physical spec | December 1986 | 10F20                           | physical spec | July 1982     |
| <sup>1)</sup> R63               | system spec   | December 1986 | 10F20                           | system spec   | July 1982     |
| R64                             | physical spec | December 1986 | 15F20                           | physical spec | July 1982     |
| <sup>1)</sup> R64               | system spec   | December 1986 | 15F20                           | system spec   | July 1982     |
| R65                             | physical spec | December 1986 | 20F20                           | physical spec | July 1982     |
| <sup>1)</sup> R65               | system spec   | December 1986 | 20F20                           | system spec   | July 1982     |
| R66                             | physical spec | December 1986 | 6F22                            | system spec   | August 1984   |
| <sup>1)</sup> R66               | system spec   | December 1986 | 6F24                            | physical spec | July 1982     |
| R67                             | physical spec | December 1986 | 6F24                            | system spec   | July 1982     |
| <sup>1)</sup> R67               | system spec   | December 1986 | 45F40                           | physical spec | July 1982     |
| R68                             | physical spec | December 1986 | 45F40                           | system spec   | July 1982     |
| <sup>1)</sup> R68               | system spec   | December 1986 | 6F50-2                          | physical spec | July 1982     |
| R69                             | physical spec | December 1986 | 6F50-2                          | system spec   | July 1982     |
| <sup>1)</sup> R69               | system spec   | December 1986 | 6F100                           | physical spec | July 1982     |
| R0772                           | physical spec | December 1986 | 6F100                           | system spec   | August 1984   |
| CR0772                          | system spec   | December 1986 |                                 |               |               |

<sup>1)</sup> Under consideration

## PILES ÉLECTRIQUES

### Deuxième partie: Feuilles de spécifications

#### GÉNÉRALITÉS

#### 1 Feuilles de spécifications des piles

Chaque spécification de pile comporte deux feuilles

##### 1 1 *Feuille de spécification physique*

La feuille de spécification physique donne à la fois les dimensions, le type de connexion, ainsi que toutes les autres caractéristiques physiques. Elle donne également le couple électrochimique et les performances des différentes piles qui ont les mêmes caractéristiques physiques.

##### 1 2 *Feuille de spécification du couple*

La feuille de spécification du couple donne la tension, les résultats de décharges, les performances requises de chaque couple électrochimique ou de ses variantes.

#### 2 Code de référence pour les feuilles de spécifications

Le code de référence utilisé pour les feuilles de spécifications comprend deux parties

Une référence à cette spécification, c'est-à-dire 86-2-IEC, suivi par la désignation de la pile

#### 3 Date d'émission

En plus du code ci-dessous, chaque feuille comporte la date d'émission

#### 4 Dessins

Bien que les dessins contenus dans les feuilles de spécifications physiques soient à l'échelle, on ne doit pas essayer d'estimer les dimensions qui ne sont pas spécifiées

#### 5 Ordre des feuilles de spécifications

L'ordre des feuilles de spécifications est donné dans le tableau «Recueil et liste récapitulative des feuilles de spécifications», pages 8 et 10. Ce tableau prend pour base l'ordre des dimensions des piles donné dans la Publication 86-1 de la CEI, tableaux I, Ia, II et III. Si, pour la pile de même dimension, il y a plusieurs systèmes électrochimiques, l'ordre des feuilles de spécifications est donné par la séquence du système de lettres de la Publication 86-1 de la CEI, paragraphe 3.2 et, dans le cas d'un même système électrochimique, par les lettres C, P et S (après le code dimensionnel de la pile) indiquant les différents niveaux de performances électriques.

#### 6 Références

Sauf si cela est mentionné, toutes les références données dans cette norme se rapportent à la Publication 86-1 de la CEI, sixième édition, parue en 1987.

## PRIMARY BATTERIES

### Part 2: Specification sheets

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#### GENERAL

#### 1 Battery specification sheets

Each battery specification consists of two sheets

##### 1.1 *Physical specification sheet*

The physical specification sheet gives the dimensional and terminal arrangement details together with any other physical requirements. It also lists the electrochemical systems and performance variants of batteries which are specified having these physical characteristics.

##### 1.2 *System specification sheet*

The system specification sheet gives the voltage, discharge tests, performance requirements of each particular electrochemical system or performance variant.

#### 2 Specification sheet reference code

The reference code used for the specification sheet consists of two parts.

A reference to this specification, viz 86-2-IEC followed by the battery designation.

#### 3 Date of issue

In addition to the above code, each sheet is marked with its date of issue.

#### 4 Drawings

Although the drawings given in the physical specification sheets are presented to scale, estimation of dimensions other than those specified should not be attempted.

#### 5 Order of specification sheets

The order of specification sheets is given in the table "Contents summary and specification sheet references" on pages 9 and 11. This table considers basically the order of cell dimensions given in IEC Publication 86-1, Tables I, Ia, II and III. If there are electrochemical variants of the same cell dimension, the sub-order of their specification sheets is given by the sequence of system letters of IEC Publication 86-1, Sub-clause 3.2 and in the case of the same electrochemical systems by the letters C, P and S (after the cell dimension code) indicating different electrical performance characteristics.

#### 6 References

Unless otherwise stated, all the references given in this standard refer to IEC Publication 86-1, sixth edition, issued in 1987.

### Tableaux des piles par application

Chacun des tableaux suivants donne la liste de toutes les piles pour lesquelles il y a, dans cette spécification, un essai de décharge pour une application donnée

Dans chaque tableau, les piles sont classées par ordre croissant de tension nominale et, pour une même tension nominale, par ordre croissant de volume

### Tabulation of batteries by application

Each of the following tables lists all the batteries for which there is a discharge test given in this specification for that application

Within each table the batteries are listed in ascending order of nominal voltage and, within each nominal voltage, in ascending order of volume

TABLEAU I  
TABLE

*Montres électriques*  
*LCD, LCD avec éclairage,*  
*LED et QSM*  
*Electric watches*  
*LCD, LCD with backlight,*  
*LED and QSM*

| Désignation<br>et référence<br>de la feuille<br><i>Designation<br/>and sheet reference</i> | Tension nominale<br><i>Nominal voltage</i><br>(V) |
|--------------------------------------------------------------------------------------------|---------------------------------------------------|
| MR41                                                                                       | 1,35                                              |
| MR48                                                                                       | 1,35                                              |
| MR42                                                                                       | 1,35                                              |
| MR43                                                                                       | 1,35                                              |
| MR44                                                                                       | 1,35                                              |
| SR41                                                                                       | 1,55                                              |
| SR48                                                                                       | 1,55                                              |
| SR42                                                                                       | 1,55                                              |
| SR43                                                                                       | 1,55                                              |
| SR44                                                                                       | 1,55                                              |

TABLEAU II  
TABLE

*Appareils de clôture électrique*  
*Electric fence controllers*

| Désignation<br>et référence<br>de la feuille<br><i>Designation<br/>and sheet reference</i> | Tension nominale<br><i>Nominal voltage</i><br>(V) |
|--------------------------------------------------------------------------------------------|---------------------------------------------------|
| R40                                                                                        | 1,5                                               |
| 5AR40                                                                                      | 7,0                                               |
| 6AS4                                                                                       | 8,4                                               |
| 6AS6                                                                                       | 8,4                                               |

TABLEAU III  
TABLE

*Équipements industriels*  
*Industrial equipment*

| Désignation<br>et référence<br>de la feuille<br><i>Designation<br/>and sheet reference</i> | Tension nominale<br><i>Nominal voltage</i><br>(V) |
|--------------------------------------------------------------------------------------------|---------------------------------------------------|
| S4                                                                                         | 1,5                                               |
| R40                                                                                        | 1,5                                               |

TABLEAU IV  
TABLE

*Postes à transistors*  
*Transistor radios*

| Désignation<br>et référence<br>de la feuille<br><i>Designation<br/>and sheet reference</i> | Tension nominale<br><i>Nominal voltage</i><br>(V) |
|--------------------------------------------------------------------------------------------|---------------------------------------------------|
| R6C                                                                                        | 1,5                                               |
| R6P                                                                                        | 1,5                                               |
| R6S                                                                                        | 1,5                                               |
| LR6                                                                                        | 1,5                                               |
| R14C                                                                                       | 1,5                                               |
| R14P                                                                                       | 1,5                                               |
| R14S                                                                                       | 1,5                                               |
| LR14                                                                                       | 1,5                                               |
| R20C                                                                                       | 1,5                                               |
| R20P                                                                                       | 1,5                                               |
| R20S                                                                                       | 1,5                                               |
| LR20                                                                                       | 1,5                                               |
| 3R12                                                                                       | 4,5                                               |
| 3LR12                                                                                      | 4,5                                               |
| 6F22                                                                                       | 9,0                                               |
| 6LR61                                                                                      | 9,0                                               |
| 6F24                                                                                       | 9,0                                               |
| 6F50-2                                                                                     | 9,0                                               |
| 6F100                                                                                      | 9,0                                               |



TABLEAU V  
TABLE

*Appareils de correction auditive*  
*Hearing aids*

| Désignation<br>et référence<br>de la feuille<br><i>Designation<br/>and sheet reference</i> | Tension nominale<br><i>Nominal voltage</i><br>(V) |
|--------------------------------------------------------------------------------------------|---------------------------------------------------|
| MR42                                                                                       | 1,35                                              |
| NR42                                                                                       | 1,4                                               |
| NR44                                                                                       | 1,4                                               |
| R1                                                                                         | 1,5                                               |
| LR1                                                                                        | 1,5                                               |
| R6C                                                                                        | 1,5                                               |
| R6P                                                                                        | 1,5                                               |
| R6S                                                                                        | 1,5                                               |
| LR6                                                                                        | 1,5                                               |
| SR48                                                                                       | 1,55                                              |

TABLEAU VI  
TABLE

*Eclairage portatif*  
*Portable lighting*

| Désignation<br>et référence<br>de la feuille<br><i>Designation<br/>and sheet reference</i> | Tension nominale<br><i>Nominal voltage</i><br>(V) |
|--------------------------------------------------------------------------------------------|---------------------------------------------------|
| R03                                                                                        | 1,5                                               |
| LR03                                                                                       | 1,5                                               |
| R6C                                                                                        | 1,5                                               |
| R6P                                                                                        | 1,5                                               |
| R6S                                                                                        | 1,5                                               |
| LR6                                                                                        | 1,5                                               |
| R14C                                                                                       | 1,5                                               |
| R14P                                                                                       | 1,5                                               |
| R14S                                                                                       | 1,5                                               |
| LR14                                                                                       | 1,5                                               |
| R20C                                                                                       | 1,5                                               |
| R20P                                                                                       | 1,5                                               |
| R20S                                                                                       | 1,5                                               |
| LR20                                                                                       | 1,5                                               |
| 2R10                                                                                       | 3,0                                               |
| 3R12                                                                                       | 4,5                                               |
| 3LR12                                                                                      | 4,5                                               |
| 3R20X                                                                                      | 4,5                                               |
| 4R25X                                                                                      | 6,0                                               |
| 4R25-2                                                                                     | 6,0                                               |

TABLEAU VII  
TABLE

*Appareils à lampe-éclair*  
*Photoflash equipment*

| Désignation<br>et référence<br>de la feuille<br><i>Designation<br/>and sheet reference</i> | Tension nominale<br><i>Nominal voltage</i><br>(V) |
|--------------------------------------------------------------------------------------------|---------------------------------------------------|
| LR14                                                                                       | 1,5                                               |
| 4F16                                                                                       | 6,0                                               |

TABLEAU VIII  
TABLE

*Magnétophones*  
*Tape recorders*

| Désignation<br>et référence<br>de la feuille<br><i>Designation<br/>and sheet reference</i> | Tension nominale<br><i>Nominal voltage</i><br>(V) |
|--------------------------------------------------------------------------------------------|---------------------------------------------------|
| R6P                                                                                        | 1,5                                               |
| LR6                                                                                        | 1,5                                               |
| R14P                                                                                       | 1,5                                               |
| LR14                                                                                       | 1,5                                               |
| R20P                                                                                       | 1,5                                               |
| LR20                                                                                       | 1,5                                               |
| 6F22                                                                                       | 9,0                                               |
| 6LR61                                                                                      | 9,0                                               |



TABLEAU IX  
TABLE

*Rasoirs et brosses à dents*  
*Razors and tooth-brushes*

| Désignation<br>et référence<br>de la feuille<br><i>Designation<br/>and sheet reference</i> | Tension nominale<br><i>Nominal voltage</i><br>(V) |
|--------------------------------------------------------------------------------------------|---------------------------------------------------|
| R6C                                                                                        | 1,5                                               |
| R6P                                                                                        | 1,5                                               |
| R6S                                                                                        | 1,5                                               |
| LR6                                                                                        | 1,5                                               |

TABLEAU X  
TABLE

*Jouets*  
*Toys*

| Désignation<br>et référence<br>de la feuille<br><i>Designation<br/>and sheet reference</i> | Tension nominale<br><i>Nominal voltage</i><br>(V) |
|--------------------------------------------------------------------------------------------|---------------------------------------------------|
| R14P                                                                                       | 1,5                                               |
| LR14                                                                                       | 1,5                                               |
| R20P                                                                                       | 1,5                                               |
| LR20                                                                                       | 1,5                                               |

TABLEAU XI  
TABLE

*Calculatrices de poche, y compris L C D*  
*Pocket calculators, including L C D*

| Désignation<br>et référence<br>de la feuille<br><i>Designation<br/>and sheet reference</i> | Tension nominale<br><i>Nominal voltage</i><br>(V) |
|--------------------------------------------------------------------------------------------|---------------------------------------------------|
| MR41                                                                                       | 1,35                                              |
| MR54                                                                                       | 1,35                                              |
| MR42                                                                                       | 1,35                                              |
| MR43                                                                                       | 1,35                                              |
| MR44                                                                                       | 1,35                                              |
| NR42                                                                                       | 1,4                                               |
| NR44                                                                                       | 1,4                                               |
| R6C                                                                                        | 1,5                                               |
| R6P                                                                                        | 1,5                                               |
| LR6                                                                                        | 1,5                                               |
| SR41                                                                                       | 1,55                                              |
| SR54                                                                                       | 1,55                                              |
| SR42                                                                                       | 1,55                                              |
| SR43                                                                                       | 1,55                                              |
| SR44                                                                                       | 1,55                                              |
| 6F22                                                                                       | 9,0                                               |
| 6LR61                                                                                      | 9,0                                               |

TABLEAU XII  
TABLE

*Caméras cinématographiques*  
*Cine cameras*

| Désignation<br>et référence<br>de la feuille<br><i>Designation<br/>and sheet reference</i> | Tension nominale<br><i>Nominal voltage</i><br>(V) |
|--------------------------------------------------------------------------------------------|---------------------------------------------------|
| R6P                                                                                        | 1,5                                               |
| LR6                                                                                        | 1,5                                               |

TABLEAU XIII  
TABLE

*Pendules Q S M et I D B W*  
(A moteur pas à pas quartz et à balancier  
commandé par impulsions)

*Clocks Q S M and I D B W*  
(With quartz stepper motor and impulse  
driven balance wheel)

| Désignation<br>et référence<br>de la feuille<br><i>Designation<br/>and sheet reference</i> | Tension nominale<br><i>Nominal voltage</i><br>(V) |
|--------------------------------------------------------------------------------------------|---------------------------------------------------|
| R6C                                                                                        | 1,5                                               |
| R6P                                                                                        | 1,5                                               |
| R6S                                                                                        | 1,5                                               |
| LR6                                                                                        | 1,5                                               |
| R14C                                                                                       | 1,5                                               |
| R14P                                                                                       | 1,5                                               |
| R14S                                                                                       | 1,5                                               |
| LR14                                                                                       | 1,5                                               |

TABLEAU XIV  
TABLE

*Appareils photographiques automatiques*  
*Automatic cameras*

| Désignation<br>et référence<br>de la feuille<br><i>Designation<br/>and sheet reference</i> | Tension nominale<br><i>Nominal voltage</i><br>(V) |
|--------------------------------------------------------------------------------------------|---------------------------------------------------|
| MR44                                                                                       | 1,35                                              |
| MR9                                                                                        | 1,35                                              |
| NR42                                                                                       | 1,4                                               |
| SR44                                                                                       | 1,55                                              |

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FEUILLES DE SPÉCIFICATIONS DES PILES

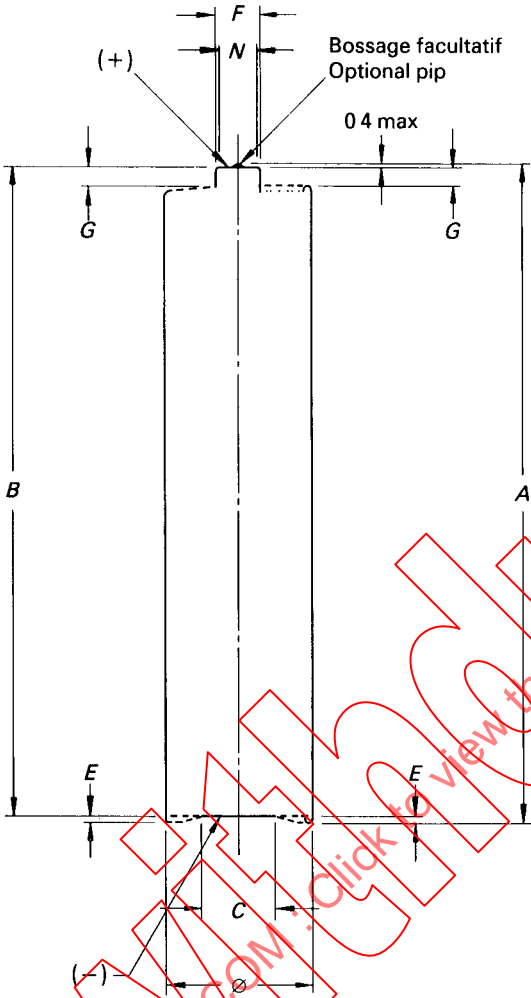
BATTERY SPECIFICATION SHEETS

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|                                                                                   |                 |                    |                           |
|-----------------------------------------------------------------------------------|-----------------|--------------------|---------------------------|
|  | <b>Pile R03</b> | <b>Battery R03</b> | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |                 |                    | PHYSICAL<br>SPECIFICATION |
|                                                                                   |                 |                    | 86 2 IEC R03              |

Dimensions (en millimètres)



Dimensions (in millimetres)

| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 44,5 |      |
| B         |      | 42,5 |
| C         |      | 4,0  |
| E         | 0,5  |      |
| F         | 3,8  |      |
| G         |      | 0,8  |
| N         |      | 2,0  |
| Ø         | 10,5 | 9,5  |

Le contact négatif C doit être essentiellement plat sur la totalité de la surface de contact  
*Negative contact C shall be essentially flat over the whole surface area*

Pour la définition des dimensions voir le paragraphe 4.1  
*For the definition of the dimensions see Sub-clause 4.1*

La surface cylindrique est isolée des contacts  
*The cylindrical surface is insulated from the contacts*

Echelle, 2 : 1  
*Scale 2 : 1*

Les piles correspondant à cette feuille de spécification physique sont: } R03, LR03  
*Batteries complying with this specification are*

Pour information générale, voir Publication 86 1 de la CEI  
*For general information see IEC Publication 86-1*

86-2-IEC-R03

Publication 86 2 de la CEI – Juillet 1982  
*IEC Publication 86 2 – July 1982*

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                               | <b>Pile R03</b>                                      |                                            | <b>Battery R03</b>                        |                                                                          | SPÉCIFICATION<br>DU COUPLE                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Tension nominale 1,5 V, Nominal voltage 1.5 V</b> |                                            |                                           |                                                                          | SYSTEM<br>SPECIFICATION                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| 3,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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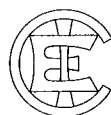
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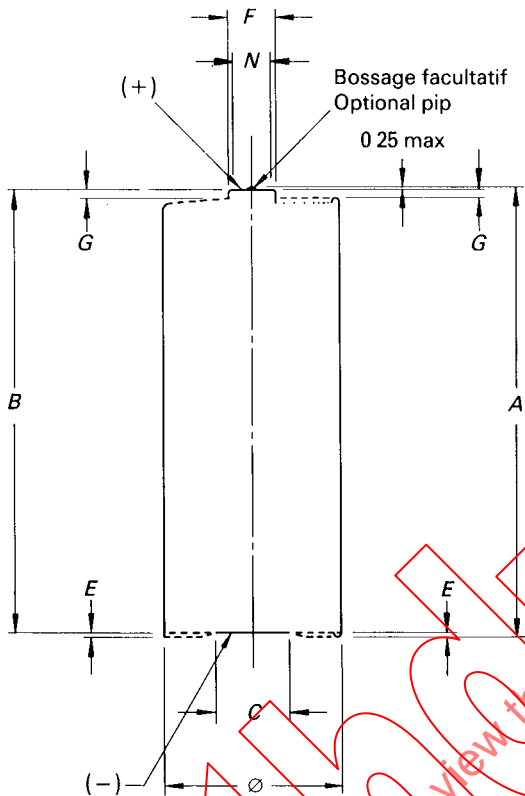
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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                  |                                  |                                     | <b>Pile LR03</b><br><br><b>Battery LR03</b><br><br><b>Tension nominale 1,5 V, Nominal voltage 1.5 V</b> |                                                              | SPÉCIFICATION<br>DU COUPLE                                                        |
|                                                                                                                                                                                                                                                                                                                   |                                  |                                     |                                                                                                         |                                                              | SYSTEM<br>SPECIFICATION                                                           |
|                                                                                                                                                                                                                                                                                                                   |                                  |                                     |                                                                                                         |                                                              | 86 2 IEC LR03                                                                     |
| Décharges                                                                                                                                                                                                                                                                                                         |                                  |                                     | Discharges                                                                                              |                                                              |                                                                                   |
| Conditions                                                                                                                                                                                                                                                                                                        |                                  |                                     | Durée minimale<br>Minimum duration                                                                      |                                                              | Applications                                                                      |
| Résistance<br>Resistance<br>(Ω)                                                                                                                                                                                                                                                                                   | Cycle journalier<br>Daily period | Tension d arrêt<br>End point<br>(V) | Initiale<br>Initial                                                                                     | Après 12 mois<br>de magasinage<br>After 12 months<br>storage |                                                                                   |
| 3,9                                                                                                                                                                                                                                                                                                               | 5 min                            | 0,9                                 |                                                                                                         |                                                              |                                                                                   |
| 300                                                                                                                                                                                                                                                                                                               | 12 h                             | 0,9                                 | 156 h                                                                                                   | 120 h                                                        | Eclairage portatif<br>Portable lighting<br><br>Essai de capacité<br>Capacity test |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R03<br/> <i>For the physical detail of this battery see physical specification sheet R03</i></p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/> <i>For general information see IEC Publication 86-1</i></p> |                                  |                                     |                                                                                                         |                                                              |                                                                                   |
| 86-2-IEC-LR03                                                                                                                                                                                                                                                                                                     |                                  |                                     | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986                      |                                                              |                                                                                   |

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|                                                                                   |                |                   |                           |
|-----------------------------------------------------------------------------------|----------------|-------------------|---------------------------|
|  | <b>Pile R1</b> | <b>Battery R1</b> | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |                |                   | PHYSICAL<br>SPECIFICATION |
|                                                                                   |                |                   | 86 2 IEC R1               |

Dimensions (en millimètres)

Dimensions (in millimetres)



| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 30,2 |      |
| B         |      | 28,0 |
| C         |      | 4,8  |
| E         | 0,2  |      |
| F         | 4,5  |      |
| G         |      | 0,3  |
| N         |      | 2,0  |
| Ø         | 12,0 | 10,7 |

Le contact négatif C doit être essentiellement plat sur la totalité de la surface de contact  
*Negative contact C shall be essentially flat over the whole surface area*

Pour la définition des dimensions, voir le paragraphe 4.1  
*For the definition of the dimensions see Sub-clause 4.1*

La surface cylindrique est isolée des contacts  
*The cylindrical surface is insulated from the contacts*

Echelle, 2:1  
*Scale 2:1*

Les piles correspondant à cette feuille de spécification physique sont:  
*Batteries complying with this specification are*

R1, LR1, MR1

Pour information générale, voir Publication 86 1 de la C E I  
*For general information see IEC Publication 86-1*

86-2-IEC-R1

Publication 86 2 de la C E I – Décembre 1980  
*IEC Publication 86-2 – December 1980*

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|                                                                                                                                                                                                                              |                                         | <b>Pile R1</b>                                       |                                           | <b>Battery R1</b>                                                                    |              | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                               |                                         | <b>Tension nominale 1,5 V, Nominal voltage 1.5 V</b> |                                           |                                                                                      |              | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                               |                                         |                                                      |                                           |                                                                                      |              | 86 2 IEC R1                |  |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                         |                                         |                                                      |                                           |                                                                                      |              |                            |  |
| Conditions                                                                                                                                                                                                                                                                                                    |                                         |                                                      | Durée minimale<br><i>Minimum duration</i> |                                                                                      | Applications |                            |  |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                                                                                                                                                        | Cycle journalier<br><i>Daily period</i> | Tension d'arrêt<br><i>End point</i><br>(V)           | Initiale<br><i>Initial</i>                | Après 6 mois<br>de magasinage<br><i>After 6 months<br/>storage</i>                   |              |                            |  |
| 300                                                                                                                                                                                                                                                                                                           | 12 h                                    | 0,9                                                  | 48 h                                      | 38 h                                                                                 |              |                            |  |
| Appareils de correction<br>auditive<br><i>Hearing aids</i>                                                                                                                                                                                                                                                    |                                         |                                                      |                                           |                                                                                      |              |                            |  |
| <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1987</div> <div>Without watermark</div>                                                                                                                                                                                                          |                                         |                                                      |                                           |                                                                                      |              |                            |  |
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| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R1<br/><i>For the physical detail of this battery see physical specification sheet R1</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information see IEC Publication 86-1</i></p> |                                         |                                                      |                                           |                                                                                      |              |                            |  |
| 86-2-IEC-R1                                                                                                                                                                                                                                                                                                   |                                         |                                                      |                                           | Publication 86 2 de la CEI – Juillet 1982<br><i>IEC Publication 86 2 – July 1982</i> |              |                            |  |

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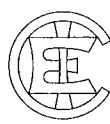
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|-----------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------|-------------------------------------------|----------------------------------------------------------------------|----------------------------|
|  | <b>Pile LR1</b>                                      |                                            | <b>Battery LR1</b>                        |                                                                      | SPÉCIFICATION<br>DU COUPLE |
|                                                                                   | <b>Tension nominale 1,5 V, Nominal voltage 1.5 V</b> |                                            |                                           |                                                                      | SYSTEM<br>SPECIFICATION    |
|                                                                                   |                                                      |                                            |                                           |                                                                      | 86 2 IEC LR1               |
| Décharges <span style="float:right">Discharges</span>                             |                                                      |                                            |                                           |                                                                      |                            |
| Conditions                                                                        |                                                      |                                            | Durée minimale<br><i>Minimum duration</i> |                                                                      | Applications               |
| Résistance<br><i>Resistance</i><br>(Ω)                                            | Cycle journalier<br><i>Daily period</i>              | Tension d'arrêt<br><i>End point</i><br>(V) | Initiale<br><i>Initial</i>                | Après 12 mois<br>de magasinage<br><i>After 12 months<br/>storage</i> |                            |
| 300                                                                               | 12 h                                                 | 0,9                                        | 108 h                                     | 86 h                                                                 |                            |
| Appareils de correction<br>auditive<br><i>Hearing aids</i>                        |                                                      |                                            |                                           |                                                                      |                            |
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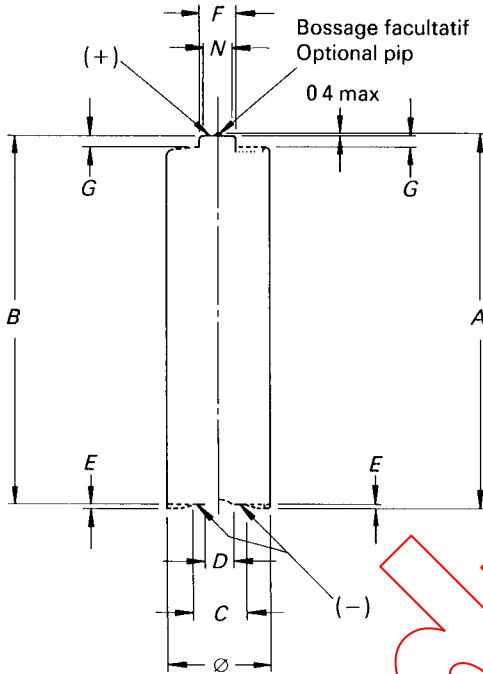
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|                                                                                                                                                                                                                | <b>Pile MR1</b>                                        |                                     | <b>Battery MR1</b>                 |                                                                                    | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                 | <b>Tension nominale 1,35 V, Nominal voltage 1.35 V</b> |                                     |                                    |                                                                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                 |                                                        |                                     |                                    |                                                                                    | 86 2 IEC MR1               |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                           |                                                        |                                     |                                    |                                                                                    |                            |
| Conditions                                                                                                                                                                                                                                                                                      |                                                        |                                     | Durée minimale<br>Minimum duration |                                                                                    | Applications               |
| Résistance<br>Resistance<br>(Ω)                                                                                                                                                                                                                                                                 | Cycle journalier<br>Daily period                       | Tension d arrêt<br>End point<br>(V) | Initiale<br>Initial                | Après 12 mois<br>de magasinage<br>After 12 months<br>storage                       |                            |
| 300                                                                                                                                                                                                                                                                                             | 12 h                                                   | 0,9                                 | 160 h                              | 128 h                                                                              |                            |
| Essai de capacité<br>Capacity test                                                                                                                                                                                                                                                              |                                                        |                                     |                                    |                                                                                    |                            |
| <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1987</div> <div>Without watermark</div>                                                                                                                                                                                            |                                                        |                                     |                                    |                                                                                    |                            |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R1<br/>For the physical detail of this battery see physical specification sheet R1</p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/>For general information see IEC Publication 86-1</p> |                                                        |                                     |                                    |                                                                                    |                            |
| 86-2-IEC-MR1                                                                                                                                                                                                                                                                                    |                                                        |                                     |                                    | Publication 86 2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986 |                            |

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|-----------------------------------------------------------------------------------|----------------|-------------------|---------------------------|
|  | <b>Pile R6</b> | <b>Battery R6</b> | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |                |                   | PHYSICAL<br>SPECIFICATION |
|                                                                                   |                |                   | 86 2 IEC R6               |

Dimensions (en millimètres)

Dimensions (in millimetres)



| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 50.5 |      |
| B         |      | 49.0 |
| C         |      | 7.0  |
| D         | 4.0  |      |
| E         | 0.5  |      |
| F         | 5.5  |      |
| G         |      | 1.0  |
| N         |      | 4.2  |
| Ø         | 14.5 | 13.5 |

Pour la définition des dimensions, voir le paragraphe 4.1  
For the definition of the dimensions see Sub clause 4.1

La surface cylindrique est isolée des contacts  
The cylindrical surface is insulated from the contacts

Echelle, 1 : 1  
Scale 1 : 1

Les piles correspondant à cette feuille de spécification physique sont:  
Batteries complying with this specification are

} R6C R6P R6S LR6 MR6

Pour information générale, voir Publication 86 1 de la CEI  
For general information see IEC Publication 86-1

86-2-IEC-R6

Publication 86 2 de la CEI – Décembre 1986  
IEC Publication 86 2 – December 1986

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|                                                                                        | <b>Pile R6C</b><br><b>(grande capacité)</b><br><b>Tension nominale 1,5 V, Nominal voltage 1 5 V</b> |                                            | <b>Battery R6C</b><br><b>(high capacity)</b><br><b>Nominal voltage 1 5 V</b>                                        |                                                               | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                         |                                                                                                     |                                            |                                                                                                                     |                                                               | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                         |                                                                                                     |                                            |                                                                                                                     |                                                               | 86 2 IEC R6C               |
| Essais de conformité — <i>Conformance tests</i>                                                                                                                         |                                                                                                     |                                            |                                                                                                                     |                                                               |                            |
| Conditions                                                                                                                                                              |                                                                                                     |                                            | Durées moyennes minimales (conditions normales)<br><i>Minimum average durations (standard conditions)</i>           |                                                               |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                  | Cycle journalier<br><i>Daily period</i>                                                             | Tension d arrêt<br><i>End point</i><br>(V) | Initiale<br><i>Initial</i>                                                                                          | Après 12 mois de magasinage<br><i>After 12 months storage</i> |                            |
| 300                                                                                                                                                                     | 12 h                                                                                                | 0,9                                        | 216 h                                                                                                               | 173                                                           |                            |
| Essais d'application — <i>Application tests</i>                                                                                                                         |                                                                                                     |                                            |                                                                                                                     |                                                               |                            |
| Conditions                                                                                                                                                              |                                                                                                     |                                            | Applications                                                                                                        |                                                               |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                  | Cycle journalier<br><i>Daily period</i>                                                             | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                                                     |                                                               |                            |
| 75                                                                                                                                                                      | 4 h                                                                                                 | 0,9                                        | Postes à transistors<br><i>Transistor radios</i>                                                                    |                                                               |                            |
| 3,9                                                                                                                                                                     | 5 min                                                                                               | 0,9                                        | Eclairage portatif<br><i>Portable lighting</i>                                                                      |                                                               |                            |
| 300                                                                                                                                                                     | 12 h                                                                                                | 0,9                                        | Appareils de correction auditive<br><i>Hearing aids</i>                                                             |                                                               |                            |
| 6,8 k                                                                                                                                                                   | 24 h                                                                                                | 1,3                                        | Pendules Q S M : moteur pas à pas quartz<br><i>Clocks Q S M quartz stepper motor</i>                                |                                                               |                            |
| 3,3 k                                                                                                                                                                   | 24 h                                                                                                | 1,3                                        | 1)                                                                                                                  |                                                               |                            |
| 33 k                                                                                                                                                                    | 24 h                                                                                                | 1,0                                        | Pendules I D B W : balancier commandé par impulsions<br><i>Clocks I D B W impulse driven balance wheel</i>          |                                                               |                            |
| 3,3 k                                                                                                                                                                   | 24 h                                                                                                | 1,0                                        | 2)                                                                                                                  |                                                               |                            |
| 15                                                                                                                                                                      | 30 min                                                                                              | 0,9                                        | Calculatrices de poche<br><i>Pocket calculators</i>                                                                 |                                                               |                            |
| 3,9                                                                                                                                                                     | 5 min                                                                                               | 0,8                                        | Rasoirs et brosses à dents<br><i>Razors and tooth-brushes</i>                                                       |                                                               |                            |
| 1) Essai d application accéléré pour pendules (Q S M)<br><i>Accelerated application test for clocks (Q S M)</i>                                                         |                                                                                                     |                                            | 2) Essai d application accéléré pour pendules (I D B W)<br><i>Accelerated application test for clocks (I D B W)</i> |                                                               |                            |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R6<br><i>For the physical detail of this battery see physical specification sheet R6</i> |                                                                                                     |                                            |                                                                                                                     |                                                               |                            |
| Pour information générale, voir Publication 86 1 de la CEI<br><i>For general information see IEC Publication 86 1</i>                                                   |                                                                                                     |                                            |                                                                                                                     |                                                               |                            |
| 86-2-IEC-R6C                                                                                                                                                            |                                                                                                     |                                            | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i>                           |                                                               |                            |

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|                                                                                        | <b>Pile R6P</b><br><b>(forte puissance)</b>          |                                            | <b>Battery R6P</b><br><b>(high power)</b>                                                                           |                                                               | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                         | <b>Tension nominale 1,5 V, Nominal voltage 1 5 V</b> |                                            |                                                                                                                     |                                                               | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                         |                                                      |                                            |                                                                                                                     |                                                               | 86 2 IEC R6P               |
| Essais de conformité — <i>Conformance tests</i>                                                                                                                         |                                                      |                                            |                                                                                                                     |                                                               |                            |
| Conditions                                                                                                                                                              |                                                      |                                            | Durées moyennes minimales (conditions normales)<br><i>Minimum average durations (standard conditions)</i>           |                                                               |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                  | Cycle journalier<br><i>Daily period</i>              | Tension d'arrêt<br><i>End point</i><br>(V) | Initiale<br><i>Initial</i>                                                                                          | Après 12 mois de magasinage<br><i>After 12 months storage</i> |                            |
| 300                                                                                                                                                                     | 12 h                                                 | 0,9                                        | 216 h                                                                                                               | 173                                                           |                            |
| 10                                                                                                                                                                      | 1 h                                                  | 0,9                                        | 4 h                                                                                                                 | 5                                                             |                            |
| Essais d application — <i>Application tests</i>                                                                                                                         |                                                      |                                            |                                                                                                                     |                                                               |                            |
| Conditions                                                                                                                                                              |                                                      |                                            | Applications                                                                                                        |                                                               |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                  | Cycle journalier<br><i>Daily period</i>              | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                                                     |                                                               |                            |
| 75                                                                                                                                                                      | 4 h                                                  | 0,9                                        | Postes à transistors<br><i>Transistor radios</i>                                                                    |                                                               |                            |
| 3,9                                                                                                                                                                     | 5 min                                                | 0,9                                        | Eclairage portatif<br><i>Portable lighting</i>                                                                      |                                                               |                            |
| 300                                                                                                                                                                     | 12 h                                                 | 0,9                                        | Appareils de correction auditive<br><i>Hearing aids</i>                                                             |                                                               |                            |
| 6,8 k                                                                                                                                                                   | 24 h                                                 | 1,3                                        | Pendules Q S M : moteur pas à pas quartz<br><i>Clocks Q S M quartz stepper motor</i>                                |                                                               |                            |
| 3,3 k                                                                                                                                                                   | 24 h                                                 | 1,3                                        | 1)                                                                                                                  |                                                               |                            |
| 33 k                                                                                                                                                                    | 24 h                                                 | 1,0                                        | Pendules I D B W : balancier commandé par impulsions<br><i>Clocks I D B W : impulse driven balance wheel</i>        |                                                               |                            |
| 3,3 k                                                                                                                                                                   | 24 h                                                 | 1,0                                        | 2)                                                                                                                  |                                                               |                            |
| 15                                                                                                                                                                      | 30 min                                               | 0,9                                        | Calculatrices de poche<br><i>Pocket calculators</i>                                                                 |                                                               |                            |
| 10                                                                                                                                                                      | 1 h                                                  | 0,9                                        | Magnétophones<br><i>Tape recorders</i>                                                                              |                                                               |                            |
| 3,9                                                                                                                                                                     | 5 min                                                | 0,8                                        | Rasoirs et brosses à dents<br><i>Razors and tooth-brushes</i>                                                       |                                                               |                            |
| 3,9                                                                                                                                                                     | 5 min                                                | 1,0                                        | Caméras cinématographiques<br><i>Cine cameras</i>                                                                   |                                                               |                            |
| 1) Essai d application accéléré pour pendules (Q S M)<br><i>Accelerated application test for clocks (Q S M)</i>                                                         |                                                      |                                            | 2) Essai d application accéléré pour pendules (I D B W)<br><i>Accelerated application test for clocks (I D B W)</i> |                                                               |                            |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R6<br><i>For the physical detail of this battery see physical specification sheet R6</i> |                                                      |                                            |                                                                                                                     |                                                               |                            |
| Pour information générale, voir Publication 86 1 de la CEI<br><i>For general information see IEC Publication 86-1</i>                                                   |                                                      |                                            |                                                                                                                     |                                                               |                            |
| 86-2-IEC-R6P                                                                                                                                                            |                                                      |                                            | Publication 86 2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i>                           |                                                               |                            |

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|                                                                                                                                                                         |                                                      |                                            |                                                                                                                     |                                                               |                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------|
|                                                                                        | <b>Pile R6S</b><br><b>(normale)</b>                  |                                            | <b>Battery R6S</b><br><b>(standard)</b>                                                                             |                                                               | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                         | <b>Tension nominale 1,5 V, Nominal voltage 1 5 V</b> |                                            |                                                                                                                     |                                                               | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                         |                                                      |                                            |                                                                                                                     |                                                               | 86 2 IEC R6S               |
| Essais de conformité — <i>Conformance tests</i>                                                                                                                         |                                                      |                                            |                                                                                                                     |                                                               |                            |
| Conditions                                                                                                                                                              |                                                      |                                            | Durées moyennes minimales (conditions normales)<br><i>Minimum average durations (standard conditions)</i>           |                                                               |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                  | Cycle journalier<br><i>Daily period</i>              | Tension d'arrêt<br><i>End point</i><br>(V) | Initiale<br><i>Initial</i>                                                                                          | Après 12 mois de magasinage<br><i>After 12 months storage</i> |                            |
| 300                                                                                                                                                                     | 12 h                                                 | 0,9                                        | 168 h                                                                                                               | 134                                                           |                            |
| Essais d'application — <i>Application tests</i>                                                                                                                         |                                                      |                                            |                                                                                                                     |                                                               |                            |
| Conditions                                                                                                                                                              |                                                      |                                            | Applications                                                                                                        |                                                               |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                  | Cycle journalier<br><i>Daily period</i>              | Tension d'arrêt<br><i>End point</i><br>(V) |                                                                                                                     |                                                               |                            |
| 75                                                                                                                                                                      | 4 h                                                  | 0,9                                        | Postes à transistors<br><i>Transistor radios</i>                                                                    |                                                               |                            |
| 3,9                                                                                                                                                                     | 5 min                                                | 0,9                                        | Eclairage portatif<br><i>Portable lighting</i>                                                                      |                                                               |                            |
| 300                                                                                                                                                                     | 12 h                                                 | 0 9                                        | Appareils de correction auditive<br><i>Hearing aids</i>                                                             |                                                               |                            |
| 6,8 k                                                                                                                                                                   | 24 h                                                 | 1,3                                        | Pendules Q S M : moteur pas à-pas quartz<br><i>Clocks Q S M quartz stepper motor</i>                                |                                                               |                            |
| 3,3 k                                                                                                                                                                   | 24 h                                                 | 1,3                                        | 1)                                                                                                                  |                                                               |                            |
| 33 k                                                                                                                                                                    | 24 h                                                 | 1,0                                        | Pendules I D B W : balancier commandé par impulsions<br><i>Clocks I D B W impulse driven balance wheel</i>          |                                                               |                            |
| 3,3 k                                                                                                                                                                   | 24 h                                                 | 1,0                                        | 2)                                                                                                                  |                                                               |                            |
| 3,9                                                                                                                                                                     | 5 min                                                | 0,8                                        | Rasoirs et brosses à dents<br><i>Razors and tooth-brushes</i>                                                       |                                                               |                            |
| 1) Essai d'application accéléré pour pendules (Q S M)<br><i>Accelerated application test for clocks (Q S M)</i>                                                         |                                                      |                                            | 2) Essai d'application accéléré pour pendules (I D B W)<br><i>Accelerated application test for clocks (I D B W)</i> |                                                               |                            |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R6<br><i>For the physical detail of this battery see physical specification sheet R6</i> |                                                      |                                            |                                                                                                                     |                                                               |                            |
| Pour information générale, voir Publication 86 1 de la CEI<br><i>For general information see IEC Publication 86-1</i>                                                   |                                                      |                                            |                                                                                                                     |                                                               |                            |
| 86-2-IEC-R6S                                                                                                                                                            |                                                      |                                            | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i>                           |                                                               |                            |

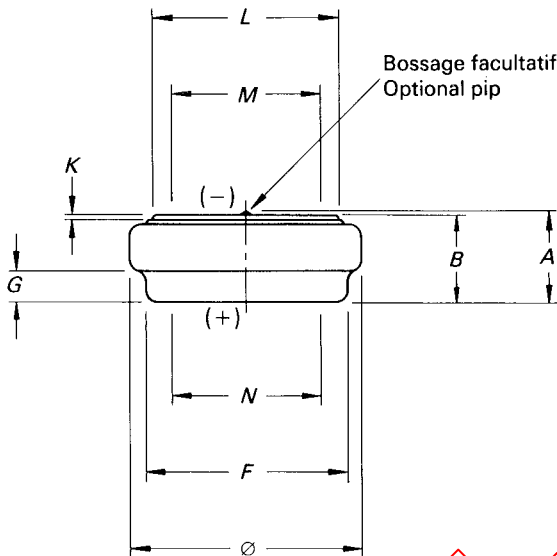
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|                                                                                                                                                                                                                                                                           |                                                |                                               |                                           |                                                                      |                                                                                                                  |                                                                      |                                                               |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------|-------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------|--|
|                                                                                                                                                                                          |                                                |                                               | Pile LR6                                  |                                                                      | Battery LR6                                                                                                      |                                                                      | SPÉCIFICATION<br>DU COUPLE                                    |  |
|                                                                                                                                                                                                                                                                           |                                                |                                               |                                           |                                                                      |                                                                                                                  |                                                                      | SYSTEM<br>SPECIFICATION                                       |  |
|                                                                                                                                                                                                                                                                           |                                                |                                               |                                           |                                                                      |                                                                                                                  |                                                                      | 86-2-IEC-LR6                                                  |  |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                     |                                                |                                               |                                           |                                                                      |                                                                                                                  |                                                                      |                                                               |  |
| Conditions                                                                                                                                                                                                                                                                |                                                |                                               | Durée minimale<br><i>Minimum duration</i> |                                                                      | Durées moyennes minimales<br>(conditions normales)<br><i>Minimum average durations<br/>(standard conditions)</i> |                                                                      | Applications                                                  |  |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                                                                                                                    | Cycle<br>journalier<br><i>Daily<br/>period</i> | Tension<br>d'arrêt<br><i>End point</i><br>(V) | Initiale<br><i>Initial</i>                | Après 12 mois<br>de magasinage<br><i>After 12 months<br/>storage</i> | Initiale<br><i>Initial</i>                                                                                       | Après 12 mois<br>de magasinage<br><i>After 12 months<br/>storage</i> |                                                               |  |
| 3,9                                                                                                                                                                                                                                                                       | 5 min                                          | 0,9                                           |                                           |                                                                      |                                                                                                                  |                                                                      | Eclairage portatif<br><i>Portable lighting</i>                |  |
| 75                                                                                                                                                                                                                                                                        | 4 h                                            | 0,9                                           |                                           |                                                                      | 88 h                                                                                                             | 79 h                                                                 | Postes à transistors<br><i>Transistor radios</i>              |  |
| 300                                                                                                                                                                                                                                                                       | 12 h                                           | 0,9                                           |                                           |                                                                      | 372 h                                                                                                            | 335 h                                                                | Appareils de correction<br>auditive<br><i>Hearing aids</i>    |  |
| 1                                                                                                                                                                                                                                                                         | 24 h                                           | 0,75                                          | 20 min                                    | 16 min                                                               |                                                                                                                  |                                                                      |                                                               |  |
| 15                                                                                                                                                                                                                                                                        | 30 min                                         | 0,9                                           |                                           |                                                                      |                                                                                                                  |                                                                      | Calculatrices de poche<br><i>Pocket calculators</i>           |  |
| 10                                                                                                                                                                                                                                                                        | 1 h                                            | 0,9                                           |                                           |                                                                      |                                                                                                                  |                                                                      | Magnétophones<br><i>Tape recorders</i>                        |  |
| 3,9                                                                                                                                                                                                                                                                       | 5 min                                          | 0,8                                           |                                           |                                                                      |                                                                                                                  |                                                                      | Rasoirs et brosses à dents<br><i>Razors and tooth-brushes</i> |  |
| 3,9                                                                                                                                                                                                                                                                       | 5 min                                          | 1,0                                           |                                           |                                                                      |                                                                                                                  |                                                                      | Caméras cinématogra-<br>phiques<br><i>Cine cameras</i>        |  |
| 6,8 k                                                                                                                                                                                                                                                                     | 24 h                                           | 1,3                                           |                                           |                                                                      |                                                                                                                  |                                                                      | Pendules (Q S M )<br><i>Clocks (Q S M )</i>                   |  |
| 3,3 k                                                                                                                                                                                                                                                                     | 24 h                                           | 1,3                                           |                                           |                                                                      |                                                                                                                  |                                                                      | 1)                                                            |  |
| 33 k                                                                                                                                                                                                                                                                      | 24 h                                           | 1,0                                           |                                           |                                                                      |                                                                                                                  |                                                                      | Pendules (I D B W )<br><i>Clocks (I D B W )</i>               |  |
| 3,3 k                                                                                                                                                                                                                                                                     | 24 h                                           | 1,0                                           |                                           |                                                                      |                                                                                                                  |                                                                      | 2)                                                            |  |
| <div><div>1) Essai d application accéléré pour pendules (Q S M )<br/><i>Accelerated application test for clocks (Q S M )</i></div><div>2) Essai d application accéléré pour pendules (I D B W )<br/><i>Accelerated application test for clocks (I D B W )</i></div></div> |                                                |                                               |                                           |                                                                      |                                                                                                                  |                                                                      |                                                               |  |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R6<br><i>For the physical detail of this battery see physical specification sheet R6</i>                                                                                                   |                                                |                                               |                                           |                                                                      |                                                                                                                  |                                                                      |                                                               |  |
| Pour information générale, voir Publication 86-1 de la CEI<br><i>For general information see IEC Publication 86 1</i>                                                                                                                                                     |                                                |                                               |                                           |                                                                      |                                                                                                                  |                                                                      |                                                               |  |
| 86-2-IEC-LR6                                                                                                                                                                                                                                                              |                                                |                                               |                                           |                                                                      | Publication 86-2 de la CEI – Août 1984<br><i>IEC Publication 86 2 – August 1984</i>                              |                                                                      |                                                               |  |

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|                                                                                   |                |                   |                           |
|-----------------------------------------------------------------------------------|----------------|-------------------|---------------------------|
|  | <b>Pile R9</b> | <b>Battery R9</b> | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |                |                   | PHYSICAL<br>SPECIFICATION |
|                                                                                   |                |                   | 86 2 IEC R9               |

Dimensions (en millimètres)



| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 6,2  |      |
| B         |      | 5,6  |
| F         | 13,5 |      |
| G         |      | 2,0  |
| K         |      | 0,2  |
| L         | 12,5 |      |
| M         |      | 10,0 |
| N         |      | 10,0 |
| Ø         | 16,0 | 15,0 |

Pour la définition des dimensions voir le paragraphe 4.1

For the definition of the dimensions see Sub-clause 4.1

La surface cylindrique est reliée au contact positif

The cylindrical surface is connected to the positive terminal

Marquage, le paragraphe 6.2 est applicable

Marking Sub-clause 6.2 is applicable

Echelle, 2 : 1

Scale 2 : 1

Les piles correspondant à cette feuille de spécification physique sont: }  
Batteries complying with this specification are

LR9 MR9 NR9

Pour information générale, voir Publication 86-1 de la CEI

For general information see IEC Publication 86-1

86-2-IEC-R9

Publication 86-2 de la CEI – Décembre 1986  
IEC Publication 86-2 – December 1986

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|                                                                                                                                                                         |                                                      |                                            |                                                                                     |                                           |                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------|----------------------------|
|                                                                                        | <b>Pile LR9</b>                                      |                                            | <b>Battery LR9</b>                                                                  |                                           | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                         | <b>Tension nominale 1,5 V, Nominal voltage 1 5 V</b> |                                            |                                                                                     |                                           | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                         |                                                      |                                            |                                                                                     |                                           | 86-2-IEC-LR9               |
| Décharges <span style="float:right">Discharges</span>                                                                                                                   |                                                      |                                            |                                                                                     |                                           |                            |
| Conditions                                                                                                                                                              |                                                      |                                            |                                                                                     | Applications                              |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                  | Cycle journalier<br><i>Daily period</i>              | Tension d'arrêt<br><i>End point</i><br>(V) |                                                                                     |                                           |                            |
| 390                                                                                                                                                                     | 24 h                                                 | 0,9                                        |                                                                                     | Essai de capacité<br><i>Capacity test</i> |                            |
| <div>Withdrawing notice: Click to view the full PDF of IEC 60086-2:1987</div>                                                                                           |                                                      |                                            |                                                                                     |                                           |                            |
|                                                                                                                                                                         |                                                      |                                            |                                                                                     |                                           |                            |
|                                                                                                                                                                         |                                                      |                                            |                                                                                     |                                           |                            |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R9<br><i>For the physical detail of this battery see physical specification sheet R9</i> |                                                      |                                            |                                                                                     |                                           |                            |
| Pour information générale, voir Publication 86-1 de la CEI<br><i>For general information see IEC Publication 86 1</i>                                                   |                                                      |                                            |                                                                                     |                                           |                            |
| 86-2-IEC-LR9                                                                                                                                                            |                                                      |                                            | Publication 86-2 de la CEI – Août 1984<br><i>IEC Publication 86 2 – August 1984</i> |                                           |                            |

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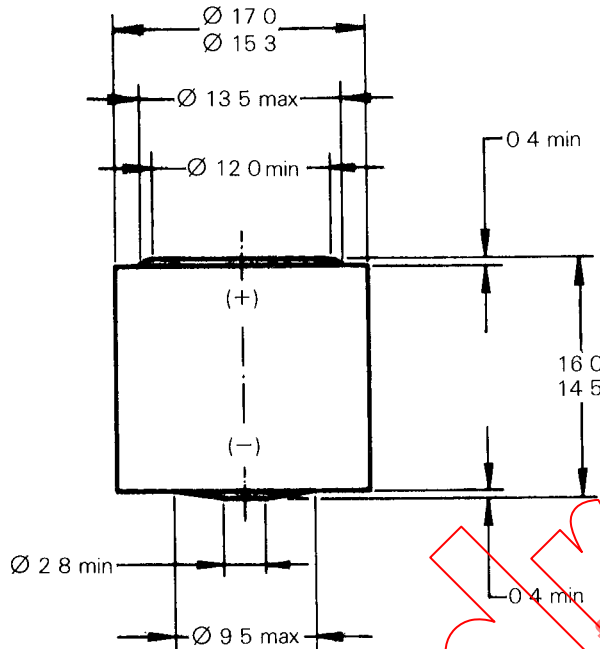


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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------|--|-------------------------------------------------------------------------------|-------------------------------------------|----------------------------|--|
|                                                                                                                                                                                                                                     |                                         | <b>Pile MR9</b>                                        |  | <b>Battery MR9</b>                                                            |                                           | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                                      |                                         | <b>Tension nominale 1,35 V, Nominal voltage 1.35 V</b> |  |                                                                               |                                           | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                                      |                                         |                                                        |  |                                                                               |                                           | 86 2 IEC MR9               |  |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                                |                                         |                                                        |  |                                                                               |                                           |                            |  |
| Conditions                                                                                                                                                                                                                                                                                                           |                                         |                                                        |  |                                                                               | Applications                              |                            |  |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                                                                                                                                                               | Cycle journalier<br><i>Daily period</i> | Tension d'arrêt<br><i>End point</i><br>(V)             |  |                                                                               |                                           |                            |  |
| 390                                                                                                                                                                                                                                                                                                                  | 24 h                                    | 0,9                                                    |  |                                                                               | Essai de capacité<br><i>Capacity test</i> |                            |  |
| 2,7 k                                                                                                                                                                                                                                                                                                                | 1)                                      | 0,9                                                    |  |                                                                               | 2)                                        |                            |  |
| <div><div>1) 24 h par jour plus 39 Ω pendant 1 s toutes les 6 s pendant 5 min par jour<br/>24 h per day plus 39 Ω for 1 s every 6 s for 5 min per day</div><div>2) Essai d'application accéléré pour appareils photographiques automa-<br/>tiques<br/>Accelerated application test for automatic cameras</div></div> |                                         |                                                        |  |                                                                               |                                           |                            |  |
| <div><div>Pour plus de détails sur cette pile, voir la feuille de spécification physique R9<br/>For the physical detail of this battery see physical specification sheet R9</div><div>Pour information générale, voir Publication 86 1 de la CEI<br/>For general information see IEC Publication 86-1</div></div>    |                                         |                                                        |  |                                                                               |                                           |                            |  |
| 86-2-IEC-MR9                                                                                                                                                                                                                                                                                                         |                                         |                                                        |  | Publication 86 2 de la CEI – Juillet 1982<br>IEC Publication 86-2 – July 1982 |                                           |                            |  |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------|----------------------------|
|                                                                                                                                                                                                                              | <b>Pile NR9</b>                                      |                                            | <b>Battery NR9</b>                                                                     |                                           | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                               | <b>Tension nominale 1,4 V, Nominal voltage 1.4 V</b> |                                            |                                                                                        |                                           | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                               |                                                      |                                            |                                                                                        |                                           | 86 2 IEC NR9               |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                         |                                                      |                                            |                                                                                        |                                           |                            |
| Conditions                                                                                                                                                                                                                                                                                                    |                                                      |                                            |                                                                                        | Applications                              |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                                                                                                                                                        | Cycle journalier<br><i>Daily period</i>              | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                        |                                           |                            |
| 390                                                                                                                                                                                                                                                                                                           | 24 h                                                 | 0,9                                        |                                                                                        | Essai de capacité<br><i>Capacity test</i> |                            |
| <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1982</div> <div>Withdrawing</div>                                                                                                                                                                                                                |                                                      |                                            |                                                                                        |                                           |                            |
|                                                                                                                                                                                                                                                                                                               |                                                      |                                            |                                                                                        |                                           |                            |
|                                                                                                                                                                                                                                                                                                               |                                                      |                                            |                                                                                        |                                           |                            |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R9<br/><i>For the physical detail of this battery see physical specification sheet R9</i></p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/><i>For general information see IEC Publication 86-1</i></p> |                                                      |                                            |                                                                                        |                                           |                            |
| 86-2-IEC-NR9                                                                                                                                                                                                                                                                                                  |                                                      |                                            | Publication 86 2 de la C E I – Juillet 1982<br><i>IEC Publication 86-2 – July 1982</i> |                                           |                            |

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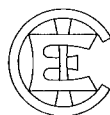
|                                                                                                                              |          |                                                                                                          |                           |
|------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------|---------------------------|
|                                             | Pile 2R9 | Battery 2R9                                                                                              | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                                                              |          |                                                                                                          | PHYSICAL<br>SPECIFICATION |
|                                                                                                                              |          |                                                                                                          | 86-2-IEC-2R9              |
| Dimensions (en millimètres)                                                                                                  |          | Dimensions (in millimetres)                                                                              |                           |
|                                            |          | La surface cylindrique est isolée des contacts<br>The cylindrical surface is insulated from the contacts |                           |
| Les piles correspondant à cette feuille de spécification physique sont: }<br>Batteries complying with this specification are |          | 2MR9                                                                                                     |                           |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information see IEC Publication 86-1               |          |                                                                                                          |                           |
| 86-2-IEC-2R9                                                                                                                 |          | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86 2 – August 1984                             |                           |

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|                                                                                   |                                                        |                                            |                     |                                           |                            |
|-----------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|---------------------|-------------------------------------------|----------------------------|
|  | <b>Pile 2MR9</b>                                       |                                            | <b>Battery 2MR9</b> |                                           | SPÉCIFICATION<br>DU COUPLE |
|                                                                                   | <b>Tension nominale 2,70 V, Nominal voltage 2 70 V</b> |                                            |                     |                                           | SYSTEM<br>SPECIFICATION    |
|                                                                                   |                                                        |                                            |                     |                                           | 86-2-IEC-2MR9              |
| Décharges <span style="float:right">Discharges</span>                             |                                                        |                                            |                     |                                           |                            |
| Conditions                                                                        |                                                        |                                            |                     | Applications                              |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                            | Cycle journalier<br><i>Daily period</i>                | Tension d arrêt<br><i>End point</i><br>(V) |                     |                                           |                            |
| 820                                                                               | 24 h                                                   | 1 8                                        |                     | Essai de capacité<br><i>Capacity test</i> |                            |
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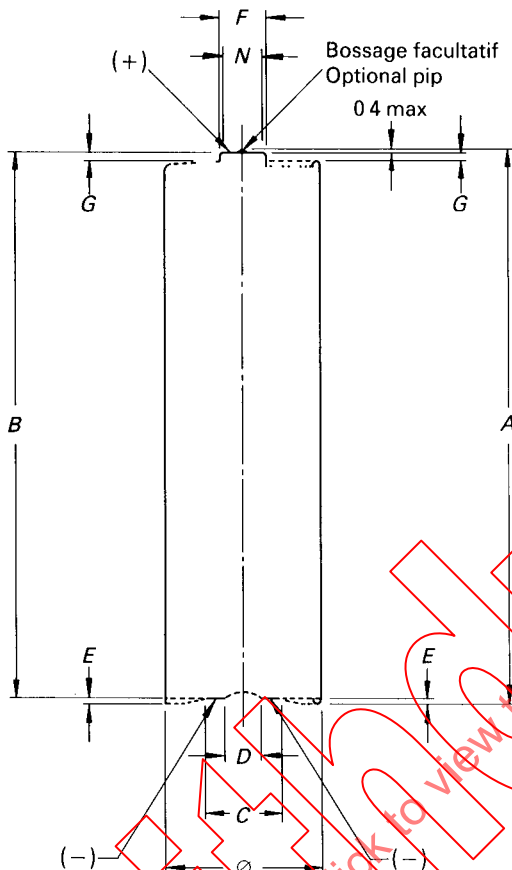
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|-----------------------------------------------------------------------------------|------------------|---------------------|---------------------------|
|  | <b>Pile 2R10</b> | <b>Battery 2R10</b> | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |                  |                     | PHYSICAL<br>SPECIFICATION |
|                                                                                   |                  |                     | 86 2 IEC 2R10             |

Dimensions (en millimètres)

Dimensions (in millimetres)



| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 74,6 |      |
| B         |      | 71,5 |
| C         |      | 9,0  |
| D         | 5,0  |      |
| E         | 0,8  |      |
| F         | 6,8  |      |
| G         |      | 1,0  |
| N         |      | 5,8  |
| Ø         | 21,8 | 20,0 |

Pour la définition des dimensions voir le paragraphe 4.1  
For the definition of the dimensions see Sub clause 4.1

La surface cylindrique est isolée des contacts  
The cylindrical surface is insulated from the contacts

Echelle, 1 : 1  
Scale 1 : 1

Les piles correspondant à cette feuille de spécification physique sont: } 2R10  
Batteries complying with this specification are

Pour information générale, voir Publication 86 1 de la CEI  
For general information see IEC Publication 86 1

86-2-IEC-2R10

Publication 86 2 de la C E I – Juillet 1982  
IEC Publication 86-2 – July 1982

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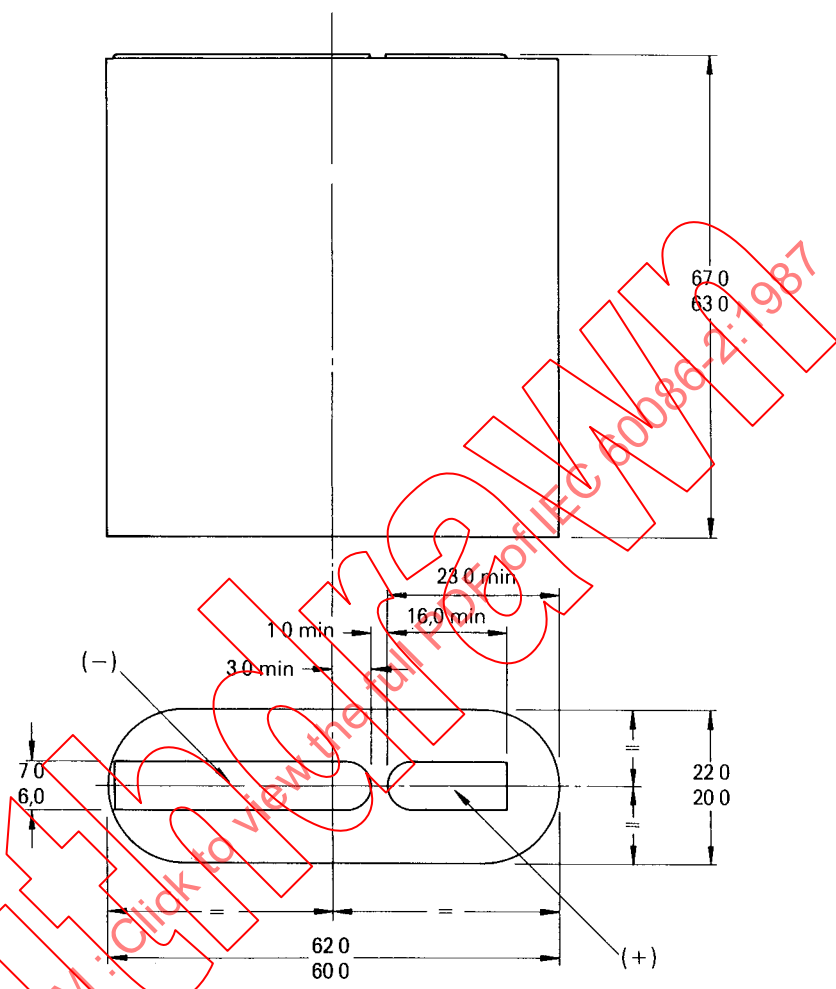
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|  |                                         | <b>Pile 2R10</b><br><br><b>Battery 2R10</b><br><br><b>Tension nominale 3,0 V, Nominal voltage 3 0 V</b> |                                                                                                                  | SPÉCIFICATION<br>DU COUPLE                                         |                                                |
|                                                                                   |                                         |                                                                                                         |                                                                                                                  | SYSTEM<br>SPECIFICATION                                            |                                                |
|                                                                                   |                                         |                                                                                                         |                                                                                                                  | 86-2-IEC-2R10                                                      |                                                |
| Décharges <span style="float:right">Discharges</span>                             |                                         |                                                                                                         |                                                                                                                  |                                                                    |                                                |
| Conditions                                                                        |                                         |                                                                                                         | Durées moyennes minimales<br>(conditions normales)<br><i>Minimum average durations<br/>(standard conditions)</i> |                                                                    | Applications                                   |
| Résistance<br><i>Resistance</i><br>(Ω)                                            | Cycle journalier<br><i>Daily period</i> | Tension d'arrêt<br><i>End point</i><br>(V)                                                              | Initiale<br><i>Initial</i>                                                                                       | Après 6 mois<br>de magasinage<br><i>After 6 months<br/>storage</i> |                                                |
| 6,8                                                                               | 5 min                                   | 1,8                                                                                                     | 85 min                                                                                                           |                                                                    |                                                |
|                                                                                   |                                         |                                                                                                         |                                                                                                                  |                                                                    | Eclairage portatif<br><i>Portable lighting</i> |
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|                                                                                   |           |              |                           |
|-----------------------------------------------------------------------------------|-----------|--------------|---------------------------|
|  | Pile 3R12 | Battery 3R12 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |           |              | PHYSICAL<br>SPECIFICATION |
|                                                                                   |           |              | 86 2 IEC 3R12             |

Dimensions (en millimètres)

Dimensions (in millimetres)



Echelle, 1 : 1  
Scale 1 1

Les piles correspondant à cette feuille de spécification physique sont: } 3R12, 3LR12  
Batteries complying with this specification are

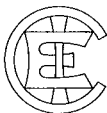
Pour information générale, voir Publication 86 1 de la CEI  
For general information see IEC Publication 86 1

86-2-IEC-3R12

Publication 86 2 de la CEI – Juillet 1982  
IEC Publication 86-2 – July 1982

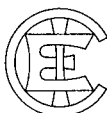
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Withdrawn

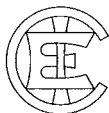
|                                                                                                                                                                                                                                                                                                                   |                                         |                                                      |                                           |                                                                                           |                                                  |                            |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------|--|
|                                                                                                                                                                                                                                  |                                         | <b>Pile 3R12</b>                                     |                                           | <b>Battery 3R12</b>                                                                       |                                                  | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                                   |                                         | <b>Tension nominale 4,5 V, Nominal voltage 4 5 V</b> |                                           |                                                                                           |                                                  | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                                   |                                         |                                                      |                                           |                                                                                           |                                                  | 86 2 IEC 3R12              |  |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                             |                                         |                                                      |                                           |                                                                                           |                                                  |                            |  |
| Conditions                                                                                                                                                                                                                                                                                                        |                                         |                                                      | Durée minimale<br><i>Minimum duration</i> |                                                                                           | Applications                                     |                            |  |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                                                                                                                                                            | Cycle journalier<br><i>Daily period</i> | Tension d arrêt<br><i>End point</i><br>(V)           | Initiale<br><i>Initial</i>                | Après 6 mois<br>de magasinage<br><i>After 6 months<br/>storage</i>                        |                                                  |                            |  |
| 10                                                                                                                                                                                                                                                                                                                | 10 min                                  | 2,7                                                  |                                           |                                                                                           | Eclairage portatif<br><i>Portable lighting</i>   |                            |  |
| 225                                                                                                                                                                                                                                                                                                               | 4 h                                     | 2,7                                                  | 100 h                                     | 80 h                                                                                      | Postes à transistors<br><i>Transistor radios</i> |                            |  |
| <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1987</div> <div>Without watermark</div>                                                                                                                                                                                                              |                                         |                                                      |                                           |                                                                                           |                                                  |                            |  |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique 3R12<br/><i>For the physical detail of this battery see physical specification sheet 3R12</i></p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/><i>For general information see IEC Publication 86-1</i></p> |                                         |                                                      |                                           |                                                                                           |                                                  |                            |  |
| 86-2-IEC-3R12                                                                                                                                                                                                                                                                                                     |                                         |                                                      |                                           | Publication 86 2 de la CEI – Décembre 1980<br><i>IEC Publication 86-2 – December 1980</i> |                                                  |                            |  |

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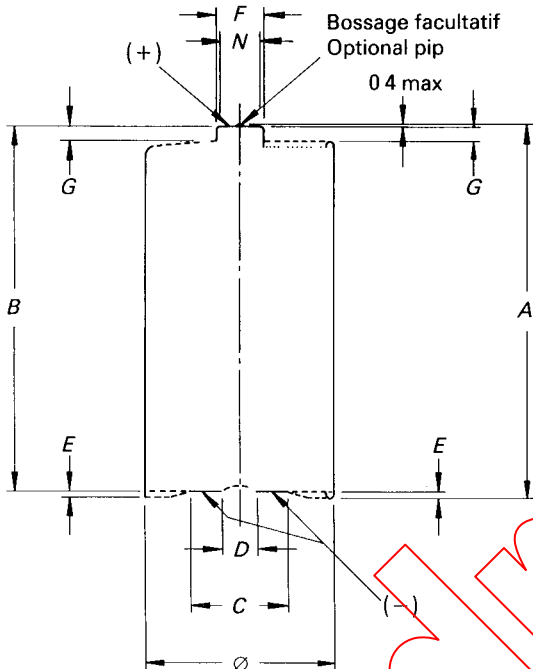
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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                  | <b>Pile 3LR12</b>                                    |                                            | <b>Battery 3LR12</b>                                                                 |                                                  | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                   | <b>Tension nominale 4,5 V, Nominal voltage 4.5 V</b> |                                            |                                                                                      |                                                  | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                   |                                                      |                                            |                                                                                      |                                                  | 86 2 IEC 3LR12             |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                             |                                                      |                                            |                                                                                      |                                                  |                            |
| Conditions                                                                                                                                                                                                                                                                                                        |                                                      |                                            |                                                                                      | Applications                                     |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                                                                                                                                                            | Cycle journalier<br><i>Daily period</i>              | Tension d'arrêt<br><i>End point</i><br>(V) |                                                                                      |                                                  |                            |
| 10                                                                                                                                                                                                                                                                                                                | 10 min                                               | 2,7                                        |                                                                                      | Eclairage portatif<br><i>Portable lighting</i>   |                            |
| 225                                                                                                                                                                                                                                                                                                               | 4 h                                                  | 2,7                                        |                                                                                      | Postes à transistors<br><i>Transistor radios</i> |                            |
| <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1987</div> <div>Without watermark</div>                                                                                                                                                                                                              |                                                      |                                            |                                                                                      |                                                  |                            |
|                                                                                                                                                                                                                                                                                                                   |                                                      |                                            |                                                                                      |                                                  |                            |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique 3R12<br/><i>For the physical detail of this battery see physical specification sheet 3R12</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information see IEC Publication 86-1</i></p> |                                                      |                                            |                                                                                      |                                                  |                            |
| 86-2-IEC-3LR12                                                                                                                                                                                                                                                                                                    |                                                      |                                            | Publication 86 2 de la CEI – Juillet 1982<br><i>IEC Publication 86-2 – July 1982</i> |                                                  |                            |

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|                                                                                   |                 |                    |                           |
|-----------------------------------------------------------------------------------|-----------------|--------------------|---------------------------|
|  | <b>Pile R14</b> | <b>Battery R14</b> | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |                 |                    | PHYSICAL<br>SPECIFICATION |
|                                                                                   |                 |                    | 86 2 IEC R14              |

Dimensions (en millimètres)

Dimensions (in millimetres)



| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 50 0 |      |
| B         |      | 48 5 |
| C         |      | 12,0 |
| D         | 5 0  |      |
| E         | 0 9  |      |
| F         | 7 5  |      |
| G         |      | 1 5  |
| N         |      | 5 5  |
| Ø         | 26 2 | 24,7 |

Pour la définition des dimensions voir le paragraphe 4.1  
For the definition of the dimensions see Sub clause 4.1

La surface cylindrique est isolée des contacts  
The cylindrical surface is insulated from the contacts

Echelle, 1 : 1  
Scale 1 1

Les piles correspondant à cette feuille de spécification physique sont:  
Batteries complying with this specification are

R14C R14P, R14S, LR14

Pour information générale, voir Publication 86 1 de la C E I  
For general information see I E C Publication 86-1

86-2-IEC-R14

Publication 86-2 de la CEI – Décembre 1986  
IEC Publication 86 2 – December 1986

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|                                                                                                                                                                           |                                                      |                                            |                                                                                                                     |                                                               |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------|
|                                                                                          | <b>Pile R14C</b><br><b>(grande capacité)</b>         |                                            | <b>Battery R14C</b><br><b>(high capacity)</b>                                                                       |                                                               | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                           | <b>Tension nominale 1,5 V, Nominal voltage 1 5 V</b> |                                            | SYSTEM<br>SPECIFICATION                                                                                             |                                                               |                            |
|                                                                                                                                                                           |                                                      |                                            | 86 2 IEC R14C                                                                                                       |                                                               |                            |
| Essais de conformité — <i>Conformance tests</i>                                                                                                                           |                                                      |                                            |                                                                                                                     |                                                               |                            |
| Conditions                                                                                                                                                                |                                                      |                                            | Durées moyennes minimales (conditions normales)<br><i>Minimum average durations (standard conditions)</i>           |                                                               |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                    | Cycle journalier<br><i>Daily period</i>              | Tension d arrêt<br><i>End point</i><br>(V) | Initiale<br><i>Initial</i>                                                                                          | Après 12 mois de magasinage<br><i>After 12 months storage</i> |                            |
| 75                                                                                                                                                                        | 4 h                                                  | 0,9                                        | 148 h                                                                                                               | 118                                                           |                            |
| Essais d application — <i>Application tests</i>                                                                                                                           |                                                      |                                            |                                                                                                                     |                                                               |                            |
| Conditions                                                                                                                                                                |                                                      |                                            | Applications                                                                                                        |                                                               |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                    | Cycle journalier<br><i>Daily period</i>              | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                                                     |                                                               |                            |
| 39                                                                                                                                                                        | 4 h                                                  | 0,9                                        | Postes à transistors<br><i>Transistor radios</i>                                                                    |                                                               |                            |
| 3,9                                                                                                                                                                       | 10 min                                               | 0,9                                        | Eclairage portatif<br><i>Portable lighting</i>                                                                      |                                                               |                            |
| 6,8 k                                                                                                                                                                     | 24 h                                                 | 1,3                                        | Pendules Q S M : moteur pas à pas quartz<br><i>Clocks Q S M quartz stepper motor</i>                                |                                                               |                            |
| 1,5 k                                                                                                                                                                     | 24 h                                                 | 1,3                                        | 1)                                                                                                                  |                                                               |                            |
| 33 k                                                                                                                                                                      | 24 h                                                 | 1,0                                        | Pendules I D B W : balancier commandé par impulsions<br><i>Clocks I D B W impulse driven balance wheel</i>          |                                                               |                            |
| 1,5 k                                                                                                                                                                     | 24 h                                                 | 1,0                                        | 2)                                                                                                                  |                                                               |                            |
| 1) Essai d application accéléré pour pendules (Q S M)<br><i>Accelerated application test for clocks (Q S M)</i>                                                           |                                                      |                                            | 2) Essai d application accéléré pour pendules (I D B W)<br><i>Accelerated application test for clocks (I D B W)</i> |                                                               |                            |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R14<br><i>For the physical detail of this battery see physical specification sheet R14</i> |                                                      |                                            |                                                                                                                     |                                                               |                            |
| Pour information générale, voir Publication 86 1 de la CEI<br><i>For general information see IEC Publication 86-1</i>                                                     |                                                      |                                            |                                                                                                                     |                                                               |                            |
| 86-2-IEC-R14C                                                                                                                                                             |                                                      |                                            | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i>                           |                                                               |                            |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------|
| <div></div> <div><b>Pile R14P</b><br/><b>(forte puissance)</b><br/><b>Tension nominale 1,5 V, Nominal voltage 1.5 V</b></div>                                                                                                                    |                                         |                                            | <b>Battery R14P</b><br><b>(high power)</b>                                                                          |                                                               | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                   |                                         |                                            |                                                                                                                     |                                                               | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                   |                                         |                                            |                                                                                                                     |                                                               | 86 2 IEC R14P              |
| Essais de conformité — <i>Conformance tests</i>                                                                                                                                                                                                                                                                                   |                                         |                                            |                                                                                                                     |                                                               |                            |
| Conditions                                                                                                                                                                                                                                                                                                                        |                                         |                                            | Durées moyennes minimales (conditions normales)<br><i>Minimum average durations (standard conditions)</i>           |                                                               |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                                                                                                                                                                            | Cycle journalier<br><i>Daily period</i> | Tension d'arrêt<br><i>End point</i><br>(V) | Initiale<br><i>Initial</i>                                                                                          | Après 12 mois de magasinage<br><i>After 12 months storage</i> |                            |
| 75                                                                                                                                                                                                                                                                                                                                | 4 h                                     | 0,9                                        | 148 h                                                                                                               | 118                                                           |                            |
| 6,8                                                                                                                                                                                                                                                                                                                               | 1 h                                     | 1,0                                        | 8 h                                                                                                                 | 6                                                             |                            |
| Essais d application — <i>Application tests</i>                                                                                                                                                                                                                                                                                   |                                         |                                            |                                                                                                                     |                                                               |                            |
| Conditions                                                                                                                                                                                                                                                                                                                        |                                         |                                            | Applications                                                                                                        |                                                               |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                                                                                                                                                                            | Cycle journalier<br><i>Daily period</i> | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                                                     |                                                               |                            |
| 39                                                                                                                                                                                                                                                                                                                                | 4 h                                     | 0,9                                        | Postes à transistors<br><i>Transistors radios</i>                                                                   |                                                               |                            |
| 3,9                                                                                                                                                                                                                                                                                                                               | 10 min                                  | 0,9                                        | Eclairage portatif<br><i>Portable lighting</i>                                                                      |                                                               |                            |
| 6,8 k                                                                                                                                                                                                                                                                                                                             | 24 h                                    | 1,3                                        | Pendules Q S M : moteur pas à pas quartz<br><i>Clocks Q S M quartz stepper motor</i>                                |                                                               |                            |
| 1,5 k                                                                                                                                                                                                                                                                                                                             | 24 h                                    | 1,3                                        | 1)                                                                                                                  |                                                               |                            |
| 33 k                                                                                                                                                                                                                                                                                                                              | 24 h                                    | 1,0                                        | Pendules I D B W : balancier commandé par impulsions<br><i>Clocks I D B W impulse driven balance wheel</i>          |                                                               |                            |
| 1,5 k                                                                                                                                                                                                                                                                                                                             | 24 h                                    | 1,0                                        | 2)                                                                                                                  |                                                               |                            |
| 6,8                                                                                                                                                                                                                                                                                                                               | 1 h                                     | 1,0                                        | Magnétophones<br><i>Tape recorders</i>                                                                              |                                                               |                            |
| 3,9                                                                                                                                                                                                                                                                                                                               | 1 h                                     | 0,8                                        | Jouets<br><i>Toys</i>                                                                                               |                                                               |                            |
| 1) Essai d application accéléré pour pendules (Q S M)<br><i>Accelerated application test for clocks (Q S M)</i>                                                                                                                                                                                                                   |                                         |                                            | 2) Essai d application accéléré pour pendules (I D B W)<br><i>Accelerated application test for clocks (I D B W)</i> |                                                               |                            |
| <div><div>Pour plus de détails sur cette pile, voir la feuille de spécification physique R14<br/><i>For the physical detail of this battery see physical specification sheet R14</i></div><div>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information see IEC Publication 86-1</i></div></div> |                                         |                                            |                                                                                                                     |                                                               |                            |
| 86-2-IEC-R14P                                                                                                                                                                                                                                                                                                                     |                                         |                                            | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i>                           |                                                               |                            |

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|                                                                                                                                                                           |                                                      |                                            |                                                                                                                     |                                                               |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------|
|                                                                                          | <b>Pile R14S<br/>(normale)</b>                       |                                            | <b>Battery R14S<br/>(standard)</b>                                                                                  |                                                               | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                           | <b>Tension nominale 1,5 V, Nominal voltage 1.5 V</b> |                                            |                                                                                                                     |                                                               | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                           |                                                      |                                            |                                                                                                                     |                                                               | 86 2 IEC R14S              |
|                                                                                                                                                                           |                                                      |                                            |                                                                                                                     |                                                               |                            |
| Essais de conformité — <i>Conformance tests</i>                                                                                                                           |                                                      |                                            |                                                                                                                     |                                                               |                            |
| Conditions                                                                                                                                                                |                                                      |                                            | Durées moyennes minimales (conditions normales)<br><i>Minimum average durations (standard conditions)</i>           |                                                               |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                    | Cycle journalier<br><i>Daily period</i>              | Tension d arrêt<br><i>End point</i><br>(V) | Initiale<br><i>Initial</i>                                                                                          | Après 12 mois de magasinage<br><i>After 12 months storage</i> |                            |
| 75                                                                                                                                                                        | 4 h                                                  | 0,9                                        | 142 h                                                                                                               | 90                                                            |                            |
|                                                                                                                                                                           |                                                      |                                            |                                                                                                                     |                                                               |                            |
| Essais d application — <i>Application tests</i>                                                                                                                           |                                                      |                                            |                                                                                                                     |                                                               |                            |
| Conditions                                                                                                                                                                |                                                      |                                            | Applications                                                                                                        |                                                               |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                    | Cycle journalier<br><i>Daily period</i>              | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                                                     |                                                               |                            |
| 39                                                                                                                                                                        | 4 h                                                  | 0,9                                        | Postes à transistors<br><i>Transistor radios</i>                                                                    |                                                               |                            |
| 3,9                                                                                                                                                                       | 10 min                                               | 0,9                                        | Eclairage portatif<br><i>Portable lighting</i>                                                                      |                                                               |                            |
| 6,8 k                                                                                                                                                                     | 24 h                                                 | 1,3                                        | Pendules Q S M : moteur pas à pas quartz<br><i>Clocks Q S M quartz stepper motor</i>                                |                                                               |                            |
| 1,5 k                                                                                                                                                                     | 24 h                                                 | 1,3                                        | 1)                                                                                                                  |                                                               |                            |
| 33 k                                                                                                                                                                      | 24 h                                                 | 1,0                                        | Pendules I D B W : balancier commandé par impulsions<br><i>Clocks I D B W impulse driven balance wheel</i>          |                                                               |                            |
| 1,5 k                                                                                                                                                                     | 24 h                                                 | 1,0                                        | 2)                                                                                                                  |                                                               |                            |
| 1) Essai d application accéléré pour pendules (Q S M)<br><i>Accelerated application test for clocks (Q S M)</i>                                                           |                                                      |                                            | 2) Essai d application accéléré pour pendules (I D B W)<br><i>Accelerated application test for clocks (I D B W)</i> |                                                               |                            |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R14<br><i>For the physical detail of this battery see physical specification sheet R14</i> |                                                      |                                            |                                                                                                                     |                                                               |                            |
| Pour information générale, voir Publication 86 1 de la CEI<br><i>For general information see IEC Publication 86-1</i>                                                     |                                                      |                                            |                                                                                                                     |                                                               |                            |
| 86-2-IEC-R14S                                                                                                                                                             |                                                      |                                            | Publication 86 2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i>                           |                                                               |                            |

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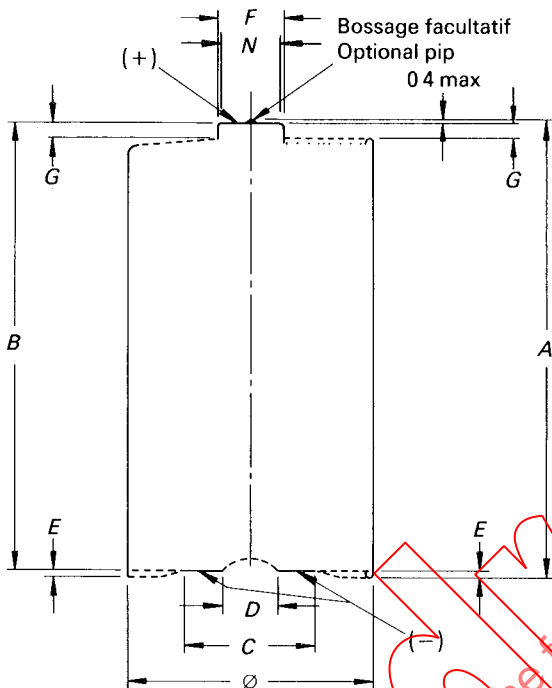
| <div></div> <div>Pile LR14</div> <div>Battery LR14</div> <div>Tension nominale 1,5 V, Nominal voltage 1 5 V</div> |                                             |                                     | SPÉCIFICATION DU COUPLE            |                                                                                    |                                                                                                          |                                                        |                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------|------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                    |                                             |                                     | SYSTEM SPECIFICATION               |                                                                                    |                                                                                                          |                                                        |                                                                                                                           |
|                                                                                                                                                                                                    |                                             |                                     | 86-2-IEC-LR14                      |                                                                                    |                                                                                                          |                                                        |                                                                                                                           |
| Décharges                                                                                                                                                                                          |                                             |                                     |                                    |                                                                                    |                                                                                                          |                                                        | Discharges                                                                                                                |
| Conditions                                                                                                                                                                                         |                                             |                                     | Durée minimale<br>Minimum duration |                                                                                    | Durées moyennes minimales<br>(conditions normales)<br>Minimum average durations<br>(standard conditions) |                                                        | Applications                                                                                                              |
| Résistance<br>Resistance<br>(Ω)                                                                                                                                                                    | Cycle journalier<br>Daily period            | Tension d'arrêt<br>End point<br>(V) | Initiale<br>Initial                | Après 12 mois de magasinage<br>After 12 months storage                             | Initiale<br>Initial                                                                                      | Après 12 mois de magasinage<br>After 12 months storage |                                                                                                                           |
| 3,9                                                                                                                                                                                                | 10 min                                      | 0,9                                 |                                    |                                                                                    |                                                                                                          |                                                        | Eclairage portatif<br>Portable lighting                                                                                   |
| 39                                                                                                                                                                                                 | 4 h                                         | 0,9                                 |                                    |                                                                                    |                                                                                                          |                                                        | Postes à transistors<br>Transistor radios                                                                                 |
| 1                                                                                                                                                                                                  | 24 h                                        | 0,75                                | 75 min                             | 60 min                                                                             |                                                                                                          |                                                        |                                                                                                                           |
| 1                                                                                                                                                                                                  | 15 s/min<br>1 h/jour<br>15 s/min<br>1 h/day | 0,75                                | 360 cycles <sup>1)</sup>           | 288 cycles <sup>1)</sup>                                                           |                                                                                                          |                                                        | Appareils à lampe éclair<br>Photoflash equipment                                                                          |
| 6,8                                                                                                                                                                                                | 1 h                                         | 1 0                                 |                                    |                                                                                    | 17 h                                                                                                     | 15 h                                                   | Magnétophones<br>Tape recorders                                                                                           |
| 3,9                                                                                                                                                                                                | 1 h                                         | 0 8                                 |                                    |                                                                                    |                                                                                                          |                                                        | Jouets<br>Toys                                                                                                            |
| 6,8 k                                                                                                                                                                                              | 24 h                                        | 1,3                                 |                                    |                                                                                    |                                                                                                          |                                                        | Pendules (Q S M )<br>Clocks (Q S M )                                                                                      |
| 1,5 k                                                                                                                                                                                              | 24 h                                        | 1,3                                 |                                    |                                                                                    |                                                                                                          |                                                        | 2)                                                                                                                        |
| 33 k                                                                                                                                                                                               | 24 h                                        | 1,0                                 |                                    |                                                                                    |                                                                                                          |                                                        | Pendules (I D B W )<br>Clocks (I D B W )                                                                                  |
| 1,5 k                                                                                                                                                                                              | 24 h                                        | 1,0                                 |                                    |                                                                                    |                                                                                                          |                                                        | 3)                                                                                                                        |
| <sup>1)</sup> Un cycle représente 15 s de décharge suivies de 45 s de repos<br>One cycle represents 15 s of discharge followed by 45 s of rest                                                     |                                             |                                     |                                    |                                                                                    |                                                                                                          |                                                        | <sup>3)</sup> Essai d application accéléré pour pendules (I D B W )<br>Accelerated application test for clocks (I D B W ) |
| <sup>2)</sup> Essai d application accéléré pour pendules (Q S M )<br>Accelerated application test for clocks (Q S M )                                                                              |                                             |                                     |                                    |                                                                                    |                                                                                                          |                                                        |                                                                                                                           |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R14<br>For the physical detail of this battery see physical specification sheet R14                                 |                                             |                                     |                                    |                                                                                    |                                                                                                          |                                                        |                                                                                                                           |
| Pou information générale, voir Publication 86 1 de la CEI<br>For general information see IEC Publication 86-1                                                                                      |                                             |                                     |                                    |                                                                                    |                                                                                                          |                                                        |                                                                                                                           |
| 86-2-IEC-LR14                                                                                                                                                                                      |                                             |                                     |                                    | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986 |                                                                                                          |                                                        |                                                                                                                           |

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|-----------------------------------------------------------------------------------|-----------------|--------------------|---------------------------|
|  | <b>Pile R20</b> | <b>Battery R20</b> | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |                 |                    | PHYSICAL<br>SPECIFICATION |
|                                                                                   |                 |                    | 86 2 IEC R20              |

Dimensions (en millimètres)

Dimensions (in millimetres)



| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 61.5 |      |
| B         |      | 59.5 |
| C         |      | 16.0 |
| D         | 7.5  |      |
| E         | 1.0  |      |
| F         | 9.5  |      |
| G         |      | 1.5  |
| N         |      | 7.8  |
| Ø         | 34.2 | 32.2 |

Pour la définition des dimensions voir le paragraphe 4.1  
For the definition of the dimensions see Sub clause 4.1

La surface cylindrique est isolée des contacts  
The cylindrical surface is insulated from the contacts

Echelle, 1 : 1  
Scale 1 : 1

Les piles correspondant à cette feuille de spécification physique sont:  
Batteries complying with this specification are

R20C R20P R20S, LR20

Pour information générale, voir Publication 86 1 de la C E I  
For general information see IEC Publication 86-1

86-2-IEC-R20

Publication 86 2 de la CEI – Décembre 1986  
IEC Publication 86 2 – December 1986

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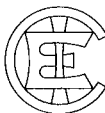
|                                                                                                                                                                           |                                                      |                                            |                                                                                                           |                                                               |                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------|
|                                                                                          | <b>Pile R20C</b><br><b>(grande capacité)</b>         |                                            | <b>Battery R20C</b><br><b>(high capacity)</b>                                                             |                                                               | <b>SPÉCIFICATION</b><br><b>DU COUPLE</b> |
|                                                                                                                                                                           | <b>Tension nominale 1,5 V, Nominal voltage 1.5 V</b> |                                            |                                                                                                           |                                                               | <b>SYSTEM</b><br><b>SPECIFICATION</b>    |
|                                                                                                                                                                           |                                                      |                                            |                                                                                                           |                                                               | 86-2 IEC R20C                            |
| Essais de conformité — <i>Conformance tests</i>                                                                                                                           |                                                      |                                            |                                                                                                           |                                                               |                                          |
| Conditions                                                                                                                                                                |                                                      |                                            | Durées moyennes minimales (conditions normales)<br><i>Minimum average durations (standard conditions)</i> |                                                               |                                          |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                    | Cycle journalier<br><i>Daily period</i>              | Tension d arrêt<br><i>End point</i><br>(V) | Initiale<br><i>Initial</i>                                                                                | Après 12 mois de magasinage<br><i>After 12 months storage</i> |                                          |
| 39                                                                                                                                                                        | 4 h                                                  | 0,9                                        | 164 h                                                                                                     | 131                                                           |                                          |
| Essais d application — <i>Application tests</i>                                                                                                                           |                                                      |                                            |                                                                                                           |                                                               |                                          |
| Conditions                                                                                                                                                                |                                                      |                                            | Applications                                                                                              |                                                               |                                          |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                    | Cycle journalier<br><i>Daily period</i>              | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                                           |                                                               |                                          |
| 39                                                                                                                                                                        | 4 h                                                  | 0,9                                        | Postes à transistors<br><i>Transistor radios</i>                                                          |                                                               |                                          |
| 3,9                                                                                                                                                                       | 30 min                                               | 0,9                                        | Eclairage portatif I<br><i>Portable lighting I</i>                                                        |                                                               |                                          |
| 2,2                                                                                                                                                                       | 1)                                                   | 0,9                                        | Eclairage portatif II<br><i>Portable lighting II</i>                                                      |                                                               |                                          |
| 1) 4 min commençant à des intervalles horaires pendant 8 h par jour<br><i>4 min beginning at hourly intervals for 8 h per day</i>                                         |                                                      |                                            |                                                                                                           |                                                               |                                          |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R20<br><i>For the physical detail of this battery see physical specification sheet R20</i> |                                                      |                                            |                                                                                                           |                                                               |                                          |
| Pour information générale, voir Publication 86 1 de la CEI<br><i>For general information see IEC Publication 86 1</i>                                                     |                                                      |                                            |                                                                                                           |                                                               |                                          |
| 86-2-IEC-R20C                                                                                                                                                             |                                                      |                                            | Publication 86 2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i>                 |                                                               |                                          |

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| <div></div> <div><b>Pile R20P</b><br/><b>(forte puissance)</b><br/><b>Tension nominale 1,5 V, Nominal voltage 1.5 V</b></div> |                                         |                                            | <b>Battery R20P</b><br><b>(high power)</b><br><b>Nominal voltage 1.5 V</b>                                |                                                               | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                |                                         |                                            |                                                                                                           |                                                               | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                |                                         |                                            |                                                                                                           |                                                               | 86 2 IEC R20P              |
| Essais de conformité — <i>Conformance tests</i>                                                                                                                                                                |                                         |                                            |                                                                                                           |                                                               |                            |
| Conditions                                                                                                                                                                                                     |                                         |                                            | Durées moyennes minimales (conditions normales)<br><i>Minimum average durations (standard conditions)</i> |                                                               |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                                                         | Cycle journalier<br><i>Daily period</i> | Tension d arrêt<br><i>End point</i><br>(V) | Initiale<br><i>Initial</i>                                                                                | Après 12 mois de magasinage<br><i>After 12 months storage</i> |                            |
| 39                                                                                                                                                                                                             | 4 h                                     | 0,9                                        | 164 h                                                                                                     | 131                                                           |                            |
| 3,9                                                                                                                                                                                                            | 1 h                                     | 1,0                                        | 12 h                                                                                                      | 10                                                            |                            |
| Essais d application — <i>Application tests</i>                                                                                                                                                                |                                         |                                            |                                                                                                           |                                                               |                            |
| Conditions                                                                                                                                                                                                     |                                         |                                            | Applications                                                                                              |                                                               |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                                                         | Cycle journalier<br><i>Daily period</i> | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                                           |                                                               |                            |
| 39                                                                                                                                                                                                             | 4 h                                     | 0,9                                        | Postes à transistors<br><i>Transistor radios</i>                                                          |                                                               |                            |
| 3,9                                                                                                                                                                                                            | 30 min                                  | 0,9                                        | Eclairage portatif I<br><i>Portable lighting I</i>                                                        |                                                               |                            |
| 2,2                                                                                                                                                                                                            | 1 h                                     | 0,9                                        | Eclairage portatif II<br><i>Portable lighting II</i>                                                      |                                                               |                            |
| 3,9                                                                                                                                                                                                            | 1 h                                     | 1,0                                        | Magnétophones<br><i>Tape recorders</i>                                                                    |                                                               |                            |
| 2,2                                                                                                                                                                                                            | 1 h                                     | 0,8                                        | Jouets<br><i>Toys</i>                                                                                     |                                                               |                            |
| <sup>1)</sup> 4 min commençant à des intervalles horaires pendant 8 h par jour<br><i>4 min beginning at hourly intervals for 8 h per day</i>                                                                   |                                         |                                            |                                                                                                           |                                                               |                            |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R20<br><i>For the physical detail of this battery see physical specification sheet R20</i>                                      |                                         |                                            |                                                                                                           |                                                               |                            |
| Pour information générale, voir Publication 86 1 de la CEI<br><i>For general information see IEC Publication 86-1</i>                                                                                          |                                         |                                            |                                                                                                           |                                                               |                            |
| 86-2-IEC-R20P                                                                                                                                                                                                  |                                         |                                            | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i>                 |                                                               |                            |

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|  | <b>Pile R20S<br/>(normale)</b>                       |                                            | <b>Battery R20S<br/>(standard)</b>                                                                        |                                                               | SPÉCIFICATION<br>DU COUPLE |
|                                                                                   | <b>Tension nominale 1,5 V, Nominal voltage 1 5 V</b> |                                            |                                                                                                           |                                                               | SYSTEM<br>SPECIFICATION    |
|                                                                                   |                                                      |                                            |                                                                                                           |                                                               | 86 2 IEC R20S              |
|                                                                                   |                                                      |                                            |                                                                                                           |                                                               |                            |
| Essais de conformité — <i>Conformance tests</i>                                   |                                                      |                                            |                                                                                                           |                                                               |                            |
| Conditions                                                                        |                                                      |                                            | Durées moyennes minimales (conditions normales)<br><i>Minimum average durations (standard conditions)</i> |                                                               |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                            | Cycle journalier<br><i>Daily period</i>              | Tension d arrêt<br><i>End point</i><br>(V) | Initiale<br><i>Initial</i>                                                                                | Après 12 mois de magasinage<br><i>After 12 months storage</i> |                            |
| 39                                                                                | 4 h                                                  | 0,9                                        | 124 h                                                                                                     | 99                                                            |                            |
|                                                                                   |                                                      |                                            |                                                                                                           |                                                               |                            |
| Essais d application — <i>Application tests</i>                                   |                                                      |                                            |                                                                                                           |                                                               |                            |
| Conditions                                                                        |                                                      |                                            | Applications                                                                                              |                                                               |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                            | Cycle journalier<br><i>Daily period</i>              | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                                           |                                                               |                            |
| 39                                                                                | 4 h                                                  | 0,9                                        | Postes à transistors<br><i>Transistor radios</i>                                                          |                                                               |                            |
| 3,9                                                                               | 30 min                                               | 0 9                                        | Eclairage portatif I<br><i>Portable lighting I</i>                                                        |                                                               |                            |
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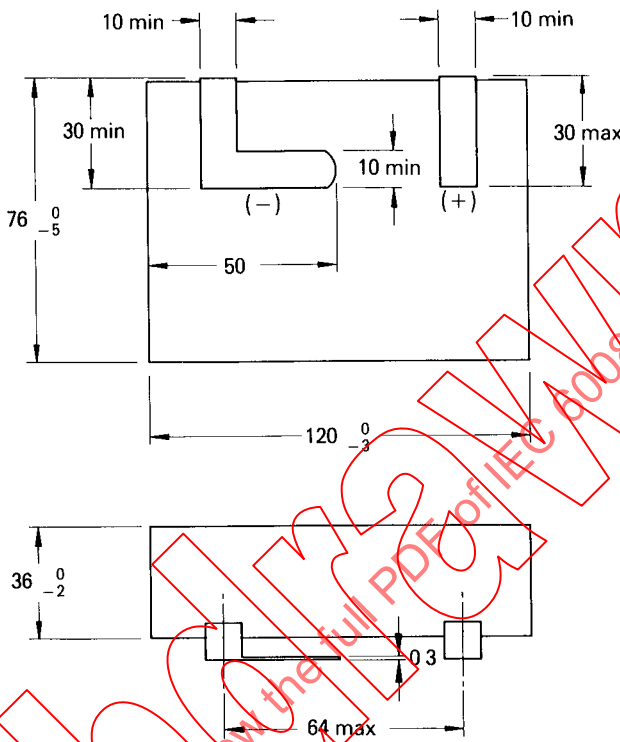
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| <div></div> <div>Pile LR20</div> <div>Battery LR20</div> <div>Tension nominale 1,5 V, Nominal voltage 1 5 V</div>                                                                                                        |                                        |                                        | SPÉCIFICATION<br>DU COUPLE         |                                                                                    |                                                                                                          |                                                              |              |                                           |
|                                                                                                                                                                                                                                                                                                           |                                        |                                        | SYSTEM<br>SPECIFICATION            |                                                                                    |                                                                                                          |                                                              |              |                                           |
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| Décharges                                                                                                                                                                                                                                                                                                 |                                        |                                        |                                    |                                                                                    |                                                                                                          |                                                              | Discharges   |                                           |
| Conditions                                                                                                                                                                                                                                                                                                |                                        |                                        | Durée minimale<br>Minimum duration |                                                                                    | Durées moyennes minimales<br>(conditions normales)<br>Minimum average durations<br>(standard conditions) |                                                              | Applications |                                           |
| Résistance<br>Resistance<br>(Ω)                                                                                                                                                                                                                                                                           | Cycle<br>journalier<br>Daily<br>period | Tension<br>d'arrêt<br>End point<br>(V) | Initiale<br>Initial                | Après 12 mois<br>de magasinage<br>After 12 months<br>storage                       | Initiale<br>Initial                                                                                      | Après 12 mois<br>de magasinage<br>After 12 months<br>storage |              |                                           |
| 3,9<br>2,2                                                                                                                                                                                                                                                                                                | 30 min<br>4 min <sup>1)</sup>          | 0,9<br>0,9                             |                                    |                                                                                    |                                                                                                          |                                                              |              | Eclairage portatif<br>Portable lighting   |
| 39                                                                                                                                                                                                                                                                                                        | 4 h                                    | 0,9                                    |                                    |                                                                                    | 300 h                                                                                                    | 270 h                                                        |              | Postes à transistors<br>Transistor radios |
| 1                                                                                                                                                                                                                                                                                                         | 24 h                                   | 0,75                                   | 240 min                            | 192 min                                                                            |                                                                                                          |                                                              |              |                                           |
| 3,9                                                                                                                                                                                                                                                                                                       | 1 h                                    | 1,0                                    |                                    |                                                                                    | 18 h                                                                                                     | 16 h                                                         |              | Magnétophones<br>Tape recorders           |
| 2,2                                                                                                                                                                                                                                                                                                       | 1 h                                    | 0,8                                    |                                    |                                                                                    |                                                                                                          |                                                              |              | Jouets<br>Toys                            |
| <div><sup>1)</sup> 4 min commençant à des intervalles horaires pendant 8 h par jour<br/>4 min beginning at hourly intervals for 8 h per day</div>                                                                                                                                                         |                                        |                                        |                                    |                                                                                    |                                                                                                          |                                                              |              |                                           |
| <div>Pour plus de détails sur cette pile, voir la feuille de spécification physique R20<br/>For the physical detail of this battery see physical specification sheet R20</div> <div>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information see IEC Publication 86 1</div> |                                        |                                        |                                    |                                                                                    |                                                                                                          |                                                              |              |                                           |
| 86-2-IEC-LR20                                                                                                                                                                                                                                                                                             |                                        |                                        |                                    | Publication 86 2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986 |                                                                                                          |                                                              |              |                                           |

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|                                                                                   |            |               |                           |
|-----------------------------------------------------------------------------------|------------|---------------|---------------------------|
|  | Pile 3R20X | Battery 3R20X | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |            |               | PHYSICAL<br>SPECIFICATION |
|                                                                                   |            |               | 86 2 IEC 3R20X            |

Dimensions (en millimètres)

Dimensions (in millimetres)



Echelle 1:2  
Scale 1 2

Les piles correspondant à cette feuille de spécification physique sont: } 3R20X  
Batteries complying with this specification are

Pour information générale, voir Publication 86 1 de la C E I  
For general information see IEC Publication 86-1

86-2-IEC-3R20X

Publication 86 2 de la C E I – Juillet 1982  
IEC Publication 86 2 – July 1982

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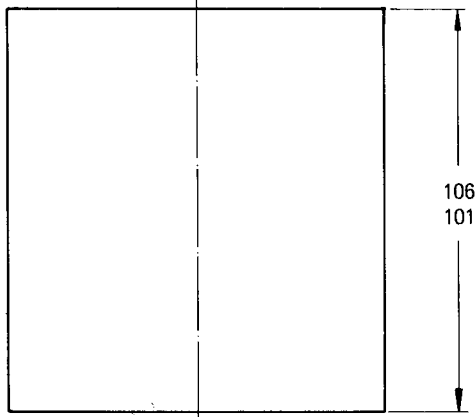
|                                                                                                                                                                                    |                                                      |                                            |                                           |                                                                    |              |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------|-------------------------------------------|--------------------------------------------------------------------|--------------|----------------------------|
|                                                                                                   | <b>Pile 3R20X</b>                                    |                                            |                                           | <b>Battery 3R20X</b>                                               |              | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                    | <b>Tension nominale 4,5 V, Nominal voltage 4 5 V</b> |                                            |                                           |                                                                    |              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                    |                                                      |                                            |                                           |                                                                    |              | 86 2 IEC 3R20X             |
| Décharges <span style="float:right">Discharges</span>                                                                                                                              |                                                      |                                            |                                           |                                                                    |              |                            |
| Conditions                                                                                                                                                                         |                                                      |                                            | Durée minimale<br><i>Minimum duration</i> |                                                                    | Applications |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                             | Cycle journalier<br><i>Daily period</i>              | Tension d arrêt<br><i>End point</i><br>(V) | Initiale<br><i>Initial</i>                | Après 6 mois<br>de magasinage<br><i>After 6 months<br/>storage</i> |              |                            |
| 15<br>12                                                                                                                                                                           | 30 min<br>4 min <sup>1)</sup>                        | 2,7<br>2,7                                 | 630 min<br>480 min                        | 505 min<br>390 min                                                 |              |                            |
| Eclairage portatif<br><i>Portable lighting</i>                                                                                                                                     |                                                      |                                            |                                           |                                                                    |              |                            |
| <div><div><div>1) 4 min commençant à des intervalles horaires pendant 8 h par jour<br/>4 min beginning at hourly intervals for 8 h per day</div><div></div></div><div></div></div> |                                                      |                                            |                                           |                                                                    |              |                            |
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Withdrawn

|                                                                                   |           |              |                           |
|-----------------------------------------------------------------------------------|-----------|--------------|---------------------------|
|  | Pile 3R25 | Battery 3R25 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |           |              | PHYSICAL<br>SPECIFICATION |
|                                                                                   |           |              | 86 2 IEC 3R25             |

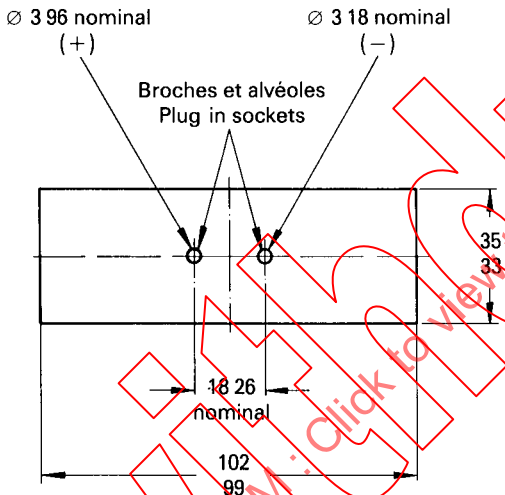
Dimensions (en millimètres)



Organes de connexion  
Terminals

Pour les détails des organes de connexion voir le  
paragraphe 5.6  
For terminal details see Sub-clause 5.6

Echelle, 1:2  
Scale 1:2



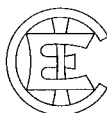
Les piles correspondant à cette feuille de spécification physique sont: } 3R25  
Batteries complying with this specification are

Pour information générale, voir Publication 86 1 de la CEI  
For general information see IEC Publication 86-1

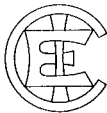
86-2-IEC-3R25

Publication 86 2 de la CEI – Juillet 1982  
IEC Publication 86 2 – July 1982

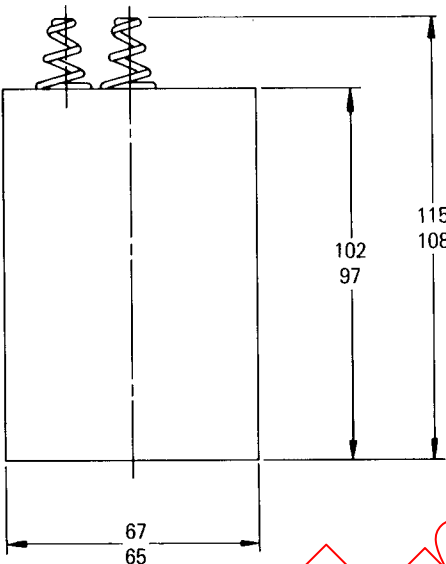
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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                    | <b>Pile 3R25</b>                                     |                                            | <b>Battery 3R25</b>                                                                    |                                           | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                     | <b>Tension nominale 4,5 V, Nominal voltage 4 5 V</b> |                                            |                                                                                        |                                           | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                     |                                                      |                                            |                                                                                        |                                           | 86 2 IEC 3R25              |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                               |                                                      |                                            |                                                                                        |                                           |                            |
| Conditions                                                                                                                                                                                                                                                                                                          |                                                      |                                            |                                                                                        | Applications                              |                            |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                                                                                                                                                              | Cycle journalier<br><i>Daily period</i>              | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                        |                                           |                            |
| 560                                                                                                                                                                                                                                                                                                                 | 24 h                                                 | 2,7                                        |                                                                                        | Essai de capacité<br><i>Capacity test</i> |                            |
| <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1987</div> <div>Without watermark</div>                                                                                                                                                                                                                |                                                      |                                            |                                                                                        |                                           |                            |
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|                                                                                                                                                                                                                                                                                                                     |                                                      |                                            |                                                                                        |                                           |                            |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique 3R25<br/><i>For the physical detail of this battery see physical specification sheet 3R25</i></p> <p>Pour information générale, voir Publication 86 1 de la C E I<br/><i>For general information see IEC Publication 86-1</i></p> |                                                      |                                            |                                                                                        |                                           |                            |
| 86-2-IEC-3R25                                                                                                                                                                                                                                                                                                       |                                                      |                                            | Publication 86 2 de la C E I – Juillet 1982<br><i>IEC Publication 86 2 – July 1982</i> |                                           |                            |

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|  | <b>Pile 4R25X</b> | <b>Battery 4R25X</b> | <b>SPÉCIFICATION<br/>PHYSIQUE</b> |
|                                                                                   |                   |                      | <b>PHYSICAL<br/>SPECIFICATION</b> |
|                                                                                   |                   |                      | 86 2 IEC 4R25X                    |

|                                    |                                    |
|------------------------------------|------------------------------------|
| <b>Dimensions (en millimètres)</b> | <b>Dimensions (in millimetres)</b> |
|------------------------------------|------------------------------------|

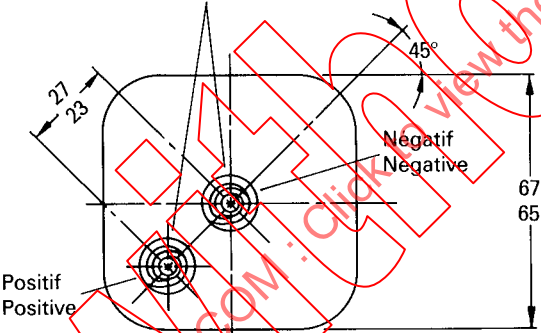


Organes de connexion  
*Terminals*

Ressorts en spirale ayant au minimum 3 spires complètes, compressibles à moins de 3 mm de la surface plane du bac  
*Spiral springs having at least 3 complete windings compressible to within 3 mm of the flat surface of the box*

Echelle 1:2  
*Scale 1 2*

Ressorts en spirale conique  
Conical spiral wire spring terminals



La pile possède des coins coupés ou arrondis; elle doit passer librement dans un gabarit ayant un diamètre de 82,6 mm  
*This battery has rounded or bevelled corners and must pass freely through a gauge having a diameter of 82.6 mm*

Les piles correspondant à cette feuille de spécification physique sont: } 4R25X  
*Batteries complying with this specification are*

Pour information générale, voir Publication 86 1 de la CEI  
*For general information see IEC Publication 86 1*

86-2-IEC-4R25X

Publication 86 2 de la CEI – Juillet 1982  
*IEC Publication 86 2 – July 1982*

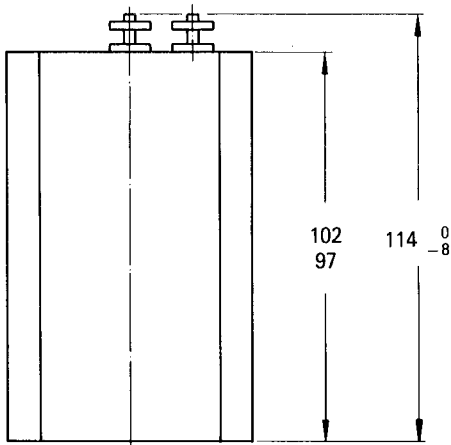
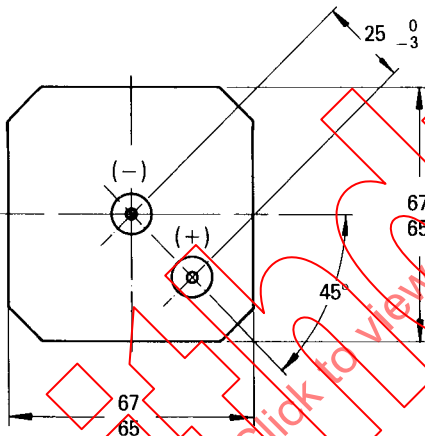
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------|
|                                                                                                                                                                                                                                   |                                         | Pile 4R25X<br><br>Battery 4R25X<br><br>Tension nominale 6,0 V, Nominal voltage 6 0 V |                                                                                                                  | SPÉCIFICATION<br>DU COUPLE                                                          |                                                |
|                                                                                                                                                                                                                                                                                                                    |                                         |                                                                                      |                                                                                                                  | SYSTEM<br>SPECIFICATION                                                             |                                                |
|                                                                                                                                                                                                                                                                                                                    |                                         |                                                                                      |                                                                                                                  | 86-2-IEC-4R25X                                                                      |                                                |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                              |                                         |                                                                                      |                                                                                                                  |                                                                                     |                                                |
| Conditions                                                                                                                                                                                                                                                                                                         |                                         |                                                                                      | Durées moyennes minimales<br>(conditions normales)<br><i>Minimum average durations<br/>(standard conditions)</i> |                                                                                     | Applications                                   |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                                                                                                                                                             | Cycle journalier<br><i>Daily period</i> | Tension d'arrêt<br><i>End point</i><br>(V)                                           | Initiale<br><i>Initial</i>                                                                                       |                                                                                     |                                                |
| 8,2                                                                                                                                                                                                                                                                                                                | 30 min                                  | 3,6                                                                                  | 8 h                                                                                                              |                                                                                     |                                                |
|                                                                                                                                                                                                                                                                                                                    |                                         |                                                                                      |                                                                                                                  |                                                                                     | Eclairage portatif<br><i>Portable lighting</i> |
| <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1987</div>                                                                                                                                                                                                                                            |                                         |                                                                                      |                                                                                                                  |                                                                                     |                                                |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique 4R25X<br/><i>For the physical detail of this battery see physical specification sheet 4R25X</i></p> <p>Pour information générale voir Publication 86-1 de la CEI<br/><i>For general information see IEC Publication 86 1</i></p> |                                         |                                                                                      |                                                                                                                  |                                                                                     |                                                |
| 86-2-IEC-4R25X                                                                                                                                                                                                                                                                                                     |                                         |                                                                                      |                                                                                                                  | Publication 86-2 de la CEI – Août 1984<br><i>IEC Publication 86 2 – August 1984</i> |                                                |

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|  | <b>Pile 4R25Y</b> | <b>Battery 4R25Y</b> | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |                   |                      | PHYSICAL<br>SPECIFICATION |
|                                                                                   |                   |                      | 86 2 IEC 4R25Y            |

|                                                                                    |                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions (en millimètres)                                                        | Dimensions (in millimetres)                                                                                                                                                                                                                                                                      |
|   | <p>Bornes<br/>Terminals</p> <p>Diamètre maximal de la borne: 3,5<br/>Maximum terminal stud diameter: 3,5</p> <p>Ecrous métalliques ou isolés satisfaisant au para<br/>graphe 5.3<br/>Insulated or metallic nuts which comply with Sub-<br/>clause 5.3</p>                                        |
|  | <p>La pile possède des coins coupés ou arrondis, elle doit<br/>passer librement dans un gabarit ayant un diamètre de<br/>82,6 mm<br/>The battery has bevelled or rounded corners and must<br/>pass freely through a gauge having a diameter of<br/>82,6 mm</p> <p>Echelle, 1:2<br/>Scale 1 2</p> |

|                                                                                                                              |       |
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| Les piles correspondant à cette feuille de spécification physique sont: }<br>Batteries complying with this specification are | 4R25Y |
|------------------------------------------------------------------------------------------------------------------------------|-------|

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| Pour information générale, voir Publication 86 1 de la CEI<br>For general information see IEC Publication 86 1 |  |
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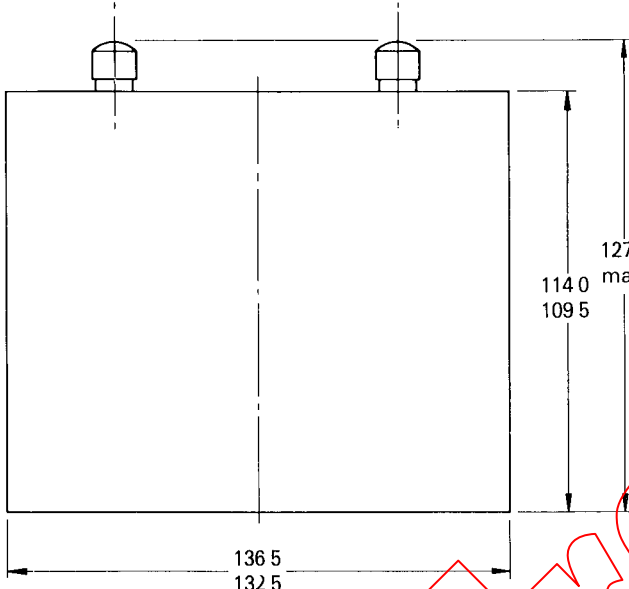
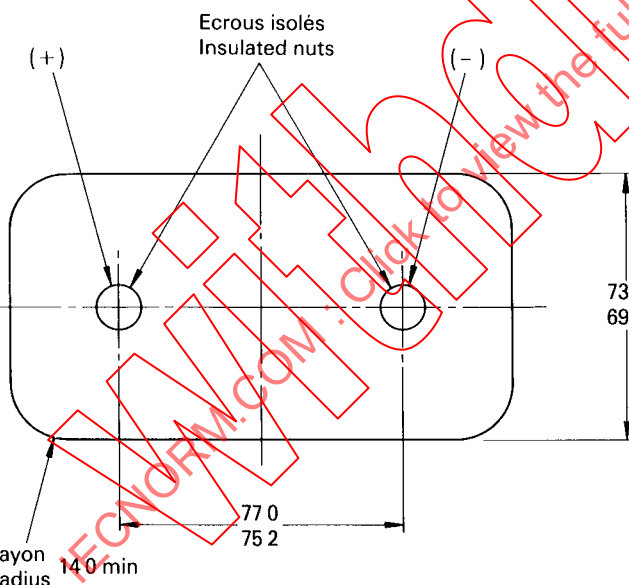
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| 86-2-IEC-4R25Y | Publication 86 2 de la CEI – Juillet 1982<br>IEC Publication 86-2 – July 1982 |
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|  |                                         | Pile 4R25Y                                    |                                                                                                                  | Battery 4R25Y |                                                | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                   |                                         | Tension nominale 6,0 V, Nominal voltage 6 0 V |                                                                                                                  |               |                                                | SYSTEM<br>SPECIFICATION    |  |
|                                                                                   |                                         |                                               |                                                                                                                  |               |                                                | 86-2-IEC-4R25Y             |  |
| Décharges <span style="float:right">Discharges</span>                             |                                         |                                               |                                                                                                                  |               |                                                |                            |  |
| Conditions                                                                        |                                         |                                               | Durées moyennes minimales<br>(conditions normales)<br><i>Minimum average durations<br/>(standard conditions)</i> |               | Applications                                   |                            |  |
| Résistance<br><i>Resistance</i><br>(Ω)                                            | Cycle journalier<br><i>Daily period</i> | Tension d arrêt<br><i>End point</i><br>(V)    | Initiale<br><i>Initial</i>                                                                                       |               |                                                |                            |  |
| 8,2                                                                               | 30 min                                  | 3,6                                           | 8 h                                                                                                              |               |                                                |                            |  |
|                                                                                   |                                         |                                               |                                                                                                                  |               | Eclairage portatif<br><i>Portable lighting</i> |                            |  |
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|-----------------------------------------------------------------------------------|-------------|----------------|---------------------------|
|  | Pile 4R25-2 | Battery 4R25-2 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |             |                | PHYSICAL<br>SPECIFICATION |
|                                                                                   |             |                | 86 2 IEC 4R25 2           |

|                                                                                     |  |                                                                                                                                                                                                                                                      |  |
|-------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Dimensions (en millimètres)                                                         |  | Dimensions (in millimetres)                                                                                                                                                                                                                          |  |
|    |  | <p>Bornes<br/>Terminals</p> <p>Diamètre maximal de la borne = 4.2<br/>Maximum terminal stud diameter = 4.2</p> <p>Diamètre minimal de la surface d'appui des écrous de connexion = 6.3<br/>Minimum diameter of bearing surface of terminal = 6.3</p> |  |
|  |  | <p>Pour les détails des organes de connexion voir le paragraphe 5.3.2<br/>For terminal details see Sub clause 5.3.2</p> <p>Echelle, 1:2<br/>Scale 1:2</p>                                                                                            |  |

Les piles correspondant à cette feuille de spécification physique sont: } 4R25 2  
Batteries complying with this specification are

Pour information générale, voir Publication 86 1 de la CEI  
For general information see IEC Publication 86 1

|                 |                                                                               |
|-----------------|-------------------------------------------------------------------------------|
| 86-2-IEC-4R25-2 | Publication 86 2 de la CEI – Juillet 1982<br>IEC Publication 86 2 – July 1982 |
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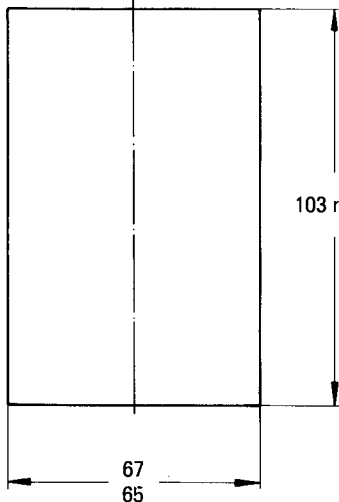


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|                                                                                                                                                                                                                        |                                  | Pile 4R25-2                                   |                                                                                                          | Battery 4R25-2                                                               |                                         | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                         |                                  | Tension nominale 6,0 V, Nominal voltage 6 0 V |                                                                                                          |                                                                              |                                         | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                         |                                  |                                               |                                                                                                          |                                                                              |                                         | 86 2-IEC-4R25-2            |  |
| DéchargesDischarges                                                                                                                                                                                                                                                                                     |                                  |                                               |                                                                                                          |                                                                              |                                         |                            |  |
| Conditions                                                                                                                                                                                                                                                                                              |                                  |                                               | Durées moyennes minimales<br>(conditions normales)<br>Minimum average durations<br>(standard conditions) |                                                                              | Applications                            |                            |  |
| Résistance<br>Resistance<br>(Ω)                                                                                                                                                                                                                                                                         | Cycle journalier<br>Daily period | Tension d'arrêt<br>End point<br>(V)           | Initiale<br>Initial                                                                                      |                                                                              |                                         |                            |  |
| 8,2                                                                                                                                                                                                                                                                                                     | 30 min                           | 3,6                                           | 18 h                                                                                                     |                                                                              |                                         |                            |  |
|                                                                                                                                                                                                                                                                                                         |                                  |                                               |                                                                                                          |                                                                              | Eclairage portatif<br>Portable lighting |                            |  |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique 4R25-2<br/>For the physical detail of this battery see physical specification sheet 4R25 2</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information see IEC Publication 86 1</p> |                                  |                                               |                                                                                                          |                                                                              |                                         |                            |  |
| 86-2-IEC-4R25-2                                                                                                                                                                                                                                                                                         |                                  |                                               |                                                                                                          | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86 2 – August 1984 |                                         |                            |  |

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|-----------------------------------------------------------------------------------|------------|---------------|---------------------------|
|  | Pile R25-4 | Battery R25-4 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |            |               | PHYSICAL<br>SPECIFICATION |
|                                                                                   |            |               | 86 2 IEC R25 4            |

Dimensions (en millimètres)

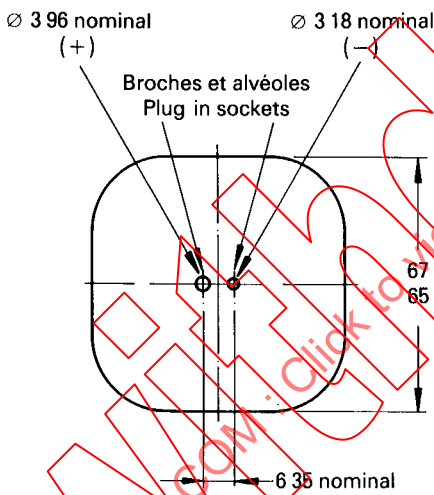


103 max

67  
65

Organes de connexion  
Terminals

Pour les détails des organes de connexion, voir le  
paragraphe 5.6  
For terminal details see Sub-clause 5.6



Ø 3.96 nominal  
(+)

Ø 3.18 nominal  
(-)

Broches et alvéoles  
Plug in sockets

67  
65

6.35 nominal

Echelle, 1 : 2  
Scale 1 : 2

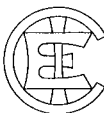
Les piles correspondant à cette feuille de spécification physique sont: } R25 4  
Batteries complying with this specification are

Pour information générale, voir Publication 86 1 de la CEI  
For general information see IEC Publication 86-1

86-2-IEC-R25-4

Publication 86 2 de la C E I – Juillet 1982  
IEC Publication 86 2 – July 1982

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------|--------------|----------------------------|
|                                                                                                                                                                                                                      | <b>Pile R25-4</b>                                    |                                     | <b>Battery R25-4</b>                                                          |              | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                       | <b>Tension nominale 1,5 V, Nominal voltage 1 5 V</b> |                                     |                                                                               |              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                       |                                                      |                                     |                                                                               |              | 86 2 IEC R25 4             |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                 |                                                      |                                     |                                                                               |              |                            |
| Conditions                                                                                                                                                                                                                                                                                            |                                                      |                                     |                                                                               | Applications |                            |
| Résistance<br>Resistance<br>(Ω)                                                                                                                                                                                                                                                                       | Cycle journalier<br>Daily period                     | Tension d arrêt<br>End point<br>(V) |                                                                               |              |                            |
| 47                                                                                                                                                                                                                                                                                                    | 24 h                                                 | 0,9                                 |                                                                               |              |                            |
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| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R25 4<br/>For the physical detail of this battery see physical specification sheet R25-4</p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/>For general information see IEC Publication 86-1</p> |                                                      |                                     |                                                                               |              |                            |
| 86-2-IEC-R25-4                                                                                                                                                                                                                                                                                        |                                                      |                                     | Publication 86 2 de la CEI – Juillet 1982<br>IEC Publication 86-2 – July 1982 |              |                            |

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| <div data-bbox="248 327 523 367"> Dimensions (en millimètres) </div>                                                                                                          | <div data-bbox="336 468 660 931"> </div> <div data-bbox="853 468 960 537"> Bornes<br/>Terminals </div> <div data-bbox="853 730 1173 851"> Ecrous métalliques ou isolés<br/>satisfaisant au paragraphe 5.3<br/>Insulated or metallic nuts which<br/>comply with Sub clause 5.3 </div> <div data-bbox="853 931 979 1001"> Echelle, 1:4<br/>Scale 1:4 </div> <div data-bbox="336 1041 679 1375"> <div data-bbox="373 1052 549 1113"> Ecrous métalliques<br/>Metal nuts </div> <div data-bbox="336 1133 679 1375"> </div> </div> | <div data-bbox="1166 327 1441 367"> Dimensions (in millimetres) </div>                                                                                                                              |
| <div data-bbox="248 1899 1003 1960"> Les piles correspondant à cette feuille de spécification physique sont: } R40<br/>Batteries complying with this specification are </div> | <div data-bbox="248 1980 829 2040"> Pour information générale, voir Publication 86-1 de la CEI<br/>For general information see IEC Publication 86-1 </div>                                                                                                                                                                                                                                                                                                                                                                   | <div data-bbox="1048 2069 1447 2121"> Publication 86-2 de la CEI – Août 1984<br/>IEC Publication 86-2 – August 1984 </div>                                                                          |
| <div data-bbox="748 2069 960 2121"> 86-2-IEC-R40 </div>                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                     |

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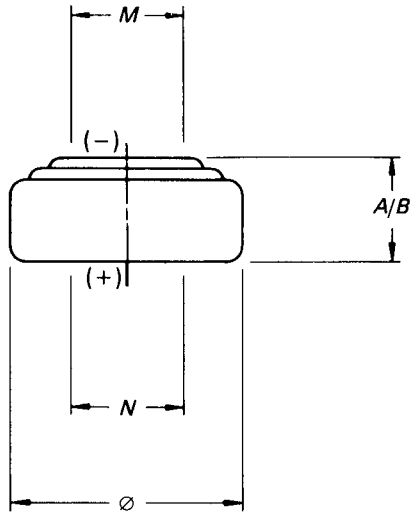
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|                                                                                                                                                                                                                                                                                                           | Pile 5R40 | Battery 5R40                                                                    | SPÉCIFICATION<br>PHYSIQUE |           |     |                                     |       |                      |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------|---------------------------|-----------|-----|-------------------------------------|-------|----------------------|-------|
|                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                 | PHYSICAL<br>SPECIFICATION |           |     |                                     |       |                      |       |
|                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                 | 86 2 IEC 5R40             |           |     |                                     |       |                      |       |
| Dimensions (en millimètres)                                                                                                                                                                                                                                                                                                                                                                |           | Dimensions (in millimetres)                                                     |                           |           |     |                                     |       |                      |       |
| <table><tr><th>Dimension</th><th>Max</th></tr><tr><td>Hauteur hors tout<br/>Overall height</td><td>190,0</td></tr><tr><td>Diamètre<br/>Diameter</td><td>184 0</td></tr></table>                                                                                                                                                                                                            |           |                                                                                 |                           | Dimension | Max | Hauteur hors tout<br>Overall height | 190,0 | Diamètre<br>Diameter | 184 0 |
| Dimension                                                                                                                                                                                                                                                                                                                                                                                  | Max       |                                                                                 |                           |           |     |                                     |       |                      |       |
| Hauteur hors tout<br>Overall height                                                                                                                                                                                                                                                                                                                                                        | 190,0     |                                                                                 |                           |           |     |                                     |       |                      |       |
| Diamètre<br>Diameter                                                                                                                                                                                                                                                                                                                                                                       | 184 0     |                                                                                 |                           |           |     |                                     |       |                      |       |
| <p>Cette pile possède des organes de connexion à vis placées sur sa surface supérieure<br/>This battery has screw terminals located on its top surface</p> <p>Diamètre maximal de la vis: 4,2 mm<br/>Maximum terminal stud diameter 4 2 mm</p> <p>Ecrous métalliques ou isolés satisfaisant au paragraphe 5 3<br/>Insulated or metallic terminal nuts which comply with Sub clause 5 3</p> |           |                                                                                 |                           |           |     |                                     |       |                      |       |
| <p>Les piles correspondant à cette feuille de spécification physique sont: } 5R40, 5AR40<br/>Batteries complying with this specification are</p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/>For general information see IEC Publication 86-1</p>                                                                                                                    |           |                                                                                 |                           |           |     |                                     |       |                      |       |
| 86-2-IEC-5R40                                                                                                                                                                                                                                                                                                                                                                              |           | Publication 86 2 de la C E I – Juillet 1982<br>IEC Publication 86-2 – July 1982 |                           |           |     |                                     |       |                      |       |

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|-----------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------|------------------------------------|--------------------------------------------------------------|----------------------------|
|  | <b>Pile 5AR40</b>                                    |                                     | <b>Battery 5AR40</b>               |                                                              | SPÉCIFICATION<br>DU COUPLE |
|                                                                                   | <b>Tension nominale 7,0 V, Nominal voltage 7 0 V</b> |                                     |                                    |                                                              | SYSTEM<br>SPECIFICATION    |
|                                                                                   |                                                      |                                     |                                    |                                                              | 86 2 IEC 5AR40             |
| Décharges <span style="float:right">Discharges</span>                             |                                                      |                                     |                                    |                                                              |                            |
| Conditions                                                                        |                                                      |                                     | Durée minimale<br>Minimum duration |                                                              | Applications               |
| Résistance<br>Resistance<br>(Ω)                                                   | Cycle journalier<br>Daily period                     | Tension d arrêt<br>End point<br>(V) | Initiale<br>Initial                | Après 12 mois<br>de magasinage<br>After 12 months<br>storage |                            |
| 240                                                                               | 24 h                                                 | 4,5                                 | 120 jours<br>120 days              | 96 jours<br>96 days                                          |                            |
| Appareils de clôture électrique<br>Electric fence controllers                     |                                                      |                                     |                                    |                                                              |                            |
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|                                                                                                                                                                                                                                                                                                    | Pile R41 | Battery R41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SPÉCIFICATION PHYSIQUE |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |
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| Dimensions (en millimètres)                                                                                                                                                                                                                                                                                                                                                         |          | Dimensions (in millimetres)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |
|                                                                                                                                                                                                                                                                                                    |          | <table><tr><th>Dimension</th><th>Max</th><th>Min</th></tr><tr><td>A/B</td><td>3,6</td><td>3,3</td></tr><tr><td>M</td><td></td><td>3</td></tr><tr><td>N</td><td></td><td>3,8</td></tr><tr><td>Ø</td><td>7,9</td><td>7,55</td></tr></table> <p>La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1<br/>Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1</p> <p>La pile devra passer librement dans un gabarit ayant le profil donné au paragraphe 4 2 et les dimensions indiquées ci dessous<br/>This battery shall pass freely through a gauge having the form shown in Sub clause 4 2 and having the dimensions below</p> <table><tr><th>Dimension</th><th>Max</th><th>Min</th></tr><tr><td>D</td><td>7,914</td><td>7,905</td></tr><tr><td>d</td><td>6,314</td><td>6,305</td></tr><tr><td>H</td><td>3,612</td><td>3,604</td></tr><tr><td>h</td><td>2,808</td><td>2,802</td></tr></table> <p>Résistance des contacts à la pression, voir le paragraphe 5 2 1<br/>Contact pressure resistance see Sub-clause 5 2 1</p> <p>La surface cylindrique est reliée au contact positif<br/>The cylindrical surface is connected to the positive terminal</p> <p>La partie plane du contact négatif doit dépasser<br/>The flat of the negative contact must project</p> <p>Echelle, 4:1<br/>Scale 4 1</p> |                        | Dimension | Max | Min | A/B | 3,6 | 3,3 | M |  | 3 | N |  | 3,8 | Ø | 7,9 | 7,55 | Dimension | Max | Min | D | 7,914 | 7,905 | d | 6,314 | 6,305 | H | 3,612 | 3,604 | h | 2,808 | 2,802 |
| Dimension                                                                                                                                                                                                                                                                                                                                                                           | Max      | Min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |
| A/B                                                                                                                                                                                                                                                                                                                                                                                 | 3,6      | 3,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |
| M                                                                                                                                                                                                                                                                                                                                                                                   |          | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |
| N                                                                                                                                                                                                                                                                                                                                                                                   |          | 3,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |
| Ø                                                                                                                                                                                                                                                                                                                                                                                   | 7,9      | 7,55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |
| Dimension                                                                                                                                                                                                                                                                                                                                                                           | Max      | Min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |
| D                                                                                                                                                                                                                                                                                                                                                                                   | 7,914    | 7,905                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |
| d                                                                                                                                                                                                                                                                                                                                                                                   | 6,314    | 6,305                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |
| H                                                                                                                                                                                                                                                                                                                                                                                   | 3,612    | 3,604                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |
| h                                                                                                                                                                                                                                                                                                                                                                                   | 2,808    | 2,802                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |
| Marquage, le paragraphe 6 2 est applicable<br>Marking Sub clause 6 2 is applicable                                                                                                                                                                                                                                                                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |
| L'attention des concepteurs d'équipements est attirée sur la nécessité de concevoir un contact électrique sur le côté de la pile qui ne gêne pas l'arrivée d air pour les « piles système P »<br>Equipment designers attention is drawn to the importance of making positive electrical contact on the side of the battery so that air access is not impeded for P system batteries |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |
| Les piles correspondant à cette feuille de spécification physique sont:<br>Batteries complying with this specification are                                                                                                                                                                                                                                                          |          | } LR41 MR41 NR41 PR41, SR41 TR41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |
| Pour information générale, voir Publication 86 1 de la CEI<br>For general information see IEC Publication 86 1                                                                                                                                                                                                                                                                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |
| 86-2-IEC-R41                                                                                                                                                                                                                                                                                                                                                                        |          | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |           |     |     |   |       |       |   |       |       |   |       |       |   |       |       |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Pile LR41</b>                                     | <b>Battery LR41</b>                                                                 | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Tension nominale 1,5 V, Nominal voltage 1 5 V</b> |                                                                                     | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |                                                                                     | 86-2-IEC-LR41              |
| <div>Décharges<span style="float: right;">Discharges</span></div> <div style="text-align: center; margin-top: 100px;">A l'étude<br/><i>Under consideration</i></div> <div style="text-align: center; margin-top: 100px;">Pour plus de détails sur cette pile, voir la feuille de spécification physique R41<br/><i>For the physical detail of this battery see physical specification sheet R41</i></div> <div style="text-align: center; margin-top: 20px;">Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information see IEC Publication 86 1</i></div> |                                                      |                                                                                     |                            |
| 86-2-IEC-LR41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                      | Publication 86-2 de la CEI – Août 1984<br><i>IEC Publication 86-2 – August 1984</i> |                            |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Tension nominale 1,35 V, Nominal voltage 1.35 V</b> |                                            |                                                                                    |                                                                                                  | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |                                            |                                                                                    |                                                                                                  | 86 2 IEC MR41              |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                        |                                            |                                                                                    |                                                                                                  |                            |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                        |                                            |                                                                                    | Applications                                                                                     |                            |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Cycle journalier<br><i>Daily period</i>                | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                    |                                                                                                  |                            |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 24 h                                                   | 1,2                                        |                                                                                    | Montres électroniques (L C D)<br><i>Electronic watches (L C D)</i>                               |                            |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1)                                                     | 1,2                                        |                                                                                    | Montres électroniques (L C D) avec éclairage<br><i>Electronic watches (L C D) with backlight</i> |                            |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2)                                                     | 1,1                                        |                                                                                    | Montres électroniques (L E D)<br><i>Electronic watches (L E D)</i>                               |                            |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 24 h                                                   | 1,2                                        |                                                                                    | Montres électroniques (Q S M)<br><i>Electronic watches (Q S M)</i>                               |                            |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1 h                                                    | 1,2                                        |                                                                                    | Calculatrices de poche (L C D)<br><i>Pocket calculators (L C D)</i>                              |                            |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 24 h                                                   | 1,2                                        |                                                                                    | Essai de capacité<br><i>Capacity test</i>                                                        |                            |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 24 h                                                   | 1,2                                        |                                                                                    | Essai de capacité<br><i>Capacity test</i>                                                        |                            |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3)                                                     | 1,2                                        |                                                                                    | 4)                                                                                               |                            |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 5)                                                     | 1,1                                        |                                                                                    | 6)                                                                                               |                            |
| <div><div>1) 24 h par jour plus 100 Ω pendant 2 s à des intervalles horaires pendant 8 h consécutives par jour<br/>24 h per day plus 100 Ω for 2 s at hourly intervals for 8 consecutive hours per day</div><div>2) 24 h par jour plus 47 Ω pendant 2 s à des intervalles horaires<br/>24 h per day plus 47 Ω for 2 s at hourly intervals</div><div>3) 24 h par jour plus 100 Ω pendant 2 s par jour<br/>24 h per day plus 100 Ω for 2 s per day</div><div>4) Essai accéléré pour montres électroniques (L C D) avec éclairage<br/>Accelerated test for electronic watches (L C D) with backlight</div><div>5) 24 h par jour plus 47 Ω pendant 2 s par jour<br/>24 h per day plus 47 Ω for 2 s per day</div><div>6) Essai accéléré pour montres électroniques (L E D)<br/>Accelerated test for electronic watches (L E D)</div></div> <div>NOTE: Pour les essais d'acceptation, voir le paragraphe 8 5<br/>NOTE For acceptance tests see Sub-clause 8 5</div> <div><div>Pour plus de détails sur cette pile, voir la feuille de spécification physique R41<br/>For the physical detail of this battery see physical specification sheet R41</div><div>Pour information générale, voir Publication 86 1 de la CEI<br/>For general information see IEC Publication 86-1</div></div> |                                                        |                                            |                                                                                    |                                                                                                  |                            |
| 86-2-IEC-MR41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                        |                                            | Publication 86-2 de la CEI - Décembre 1986<br>IEC Publication 86-2 - December 1986 |                                                                                                  |                            |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                 | <b>Pile NR41</b>                                     | SPÉCIFICATION<br>DU COUPLE                                                                |
|                                                                                                                                                                                                                                                                                                                  | <b>Battery NR41</b>                                  | SYSTEM<br>SPECIFICATION                                                                   |
|                                                                                                                                                                                                                                                                                                                  | <b>Tension nominale 1,4 V, Nominal voltage 1.4 V</b> | 86-2-IEC NR41                                                                             |
| <div> <div>Décharges</div> <div>Discharges</div> <div> <p>A l'étude</p> <p><i>Under consideration</i></p> </div> </div>                                                                                                                                                                                          |                                                      |                                                                                           |
| <p>Pour plus de détails sur cette pile voir la feuille de spécification physique R41<br/> <i>For the physical detail of this battery see physical specification sheet R41</i></p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/> <i>For general information see IEC Publication 86-1</i></p> |                                                      |                                                                                           |
| <b>86-2-IEC-NR41</b>                                                                                                                                                                                                                                                                                             |                                                      | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i> |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Pile PR41</b>                                       | <b>Battery PR41</b>                                                          | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Tension nominale 1,40 V, Nominal voltage 1 40 V</b> |                                                                              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |                                                                              | 86-2-1 EC-PR41             |
| <div>Décharges<div>Discharges</div></div> <div>A l'étude<div>Under consideration</div></div> <div><div>Note: Un délai minimum de 10 min sera observé entre la mise sous tension et le début de la mesure électrique</div><div>Note A period of at least 10 min shall elapse between activation and commencement of electrical measurement</div></div> <div><div>Pour plus de détails sur cette pile, voir la feuille de spécification physique R41</div><div>For the physical detail of this battery see physical specification sheet R41</div></div> <div><div>Pour information générale, voir Publication 86-1 de la CEI</div><div>For general information see IEC Publication 86 1</div></div> |                                                        |                                                                              |                            |
| 86-2-IEC-PR41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                        | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86-2 – August 1984 |                            |

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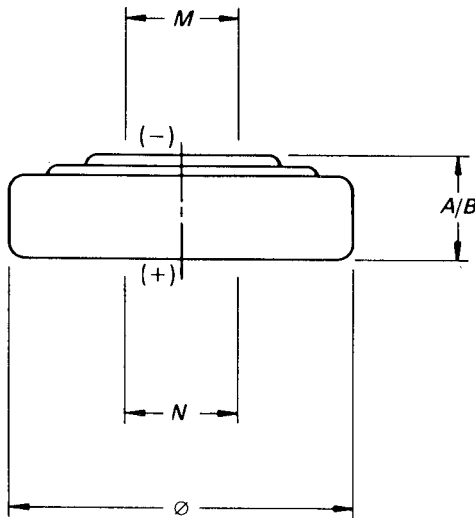


|  <b>Pile SR41</b><br><b>Battery SR41</b><br><b>Tension nominale 1,55 V, Nominal voltage 1.55 V</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                                     | SPÉCIFICATION<br>DU COUPLE                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     | SYSTEM<br>SPECIFICATION                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                     | 86 2 IEC SR41                                                                               |
| Décharges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                                     | Discharges                                                                                  |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |                                     | Applications                                                                                |
| Résistance<br>Resistance<br>(kΩ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cycle journalier<br>Daily period | Tension d arrêt<br>End point<br>(V) |                                                                                             |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 24 h                             | 1,2                                 | Montres électroniques (L C D )<br>Electronic watches (L C D )                               |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1)                               | 1,2                                 | Montres électroniques (L C D ) avec éclairage<br>Electronic watches (L C D ) with backlight |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2)                               | 1,1                                 | Montres électroniques (L E D )<br>Electronic watches (L E D )                               |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 24 h                             | 1,2                                 | Montres électroniques (Q S M )<br>Electronic watches (Q S M )                               |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1 h                              | 1,2                                 | Calculatrices de poche (L C D )<br>Pocket calculators (L C D )                              |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 24 h                             | 1,2                                 | Essai de capacité<br>Capacity test                                                          |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 24 h                             | 1,2                                 | Essai de capacité<br>Capacity test                                                          |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3)                               | 1,2                                 | 4)                                                                                          |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5)                               | 1,1                                 | 6)                                                                                          |
| <p>1) 24 h par jour plus 100 Ω pendant 2 s à des intervalles horaires pendant 8 h consécutives par jour<br/>24 h per day plus 100 Ω for 2 s at hourly intervals for 8 consecutive hours per day</p> <p>2) 24 h par jour plus 47 Ω pendant 2 s à des intervalles horaires<br/>24 h per day plus 47 Ω for 2 s at hourly intervals</p> <p>3) 24 h par jour plus 100 Ω pendant 2 s par jour<br/>24 h per day plus 100 Ω for 2 s per day</p> <p>4) Essai accéléré pour montres électroniques (L C D ) avec éclairage<br/>Accelerated test for electronic watches (L C D ) with backlight</p> <p>5) 24 h par jour plus 47 Ω pendant 2 s par jour<br/>24 h per day plus 47 Ω for 2 s per day</p> <p>6) Essai accéléré pour montres électroniques (L E D )<br/>Accelerated test for electronic watches (L E D )</p> <p>NOTE: Pour les essais d acceptation, voir le paragraphe 8 5<br/>NOTE: For acceptance tests see Sub-clause 8 5</p> <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R41<br/>For the physical detail of this battery see physical specification sheet R41</p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/>For general information see IEC Publication 86 1</p> |                                  |                                     |                                                                                             |
| 86-2-IEC-SR41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                     | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86-2 – December 1986          |

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|                                                                                                                                                                           |                                                        |                                            |                                                                                           |                                           |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------|
|                                                                                          | <b>Pile TR41</b>                                       |                                            | <b>Battery TR41</b>                                                                       |                                           | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                           | <b>Tension nominale 1,55 V, Nominal voltage 1 55 V</b> |                                            |                                                                                           |                                           | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                           |                                                        |                                            |                                                                                           |                                           | 86-2-IEC-TR41              |
| Décharges <span style="float:right">Discharges</span>                                                                                                                     |                                                        |                                            |                                                                                           |                                           |                            |
| Conditions                                                                                                                                                                |                                                        |                                            |                                                                                           | Applications                              |                            |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                   | Cycle journalier<br><i>Daily period</i>                | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                           |                                           |                            |
| 22                                                                                                                                                                        | 24 h                                                   | 1 2                                        |                                                                                           | Essai de capacité<br><i>Capacity test</i> |                            |
| <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1987</div>                                                                                                   |                                                        |                                            |                                                                                           |                                           |                            |
|                                                                                                                                                                           |                                                        |                                            |                                                                                           |                                           |                            |
|                                                                                                                                                                           |                                                        |                                            |                                                                                           |                                           |                            |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R41<br><i>For the physical detail of this battery see physical specification sheet R41</i> |                                                        |                                            |                                                                                           |                                           |                            |
| Pou information générale, voir Publication 86-1 de la CEI<br><i>For general information see IEC Publication 86 1</i>                                                      |                                                        |                                            |                                                                                           |                                           |                            |
| 86-2-IEC-TR41                                                                                                                                                             |                                                        |                                            | Publication 86 2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i> |                                           |                            |

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|                                           | Pile R42 | Battery R42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SPÉCIFICATION<br>PHYSIQUE |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
|----------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------|-----|-----|-----|--------|--------|---|-------|-------|---|-------|-------|---|-------|-------|
|                                                                                                                            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PHYSICAL<br>SPECIFICATION |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
|                                                                                                                            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 86-2-IEC-R42              |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| Dimensions (en millimètres)                                                                                                |          | Dimensions (in millimetres)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
|                                           |          | <table><tr><th>Dimension</th><th>Max</th><th>Min</th></tr><tr><td>A/B</td><td>3,6</td><td>3,3</td></tr><tr><td>M</td><td></td><td>3,8</td></tr><tr><td>N</td><td></td><td>3,8</td></tr><tr><td>Ø</td><td>11,6</td><td>11,25</td></tr></table> <p>La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1<br/>Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1</p> <p>La pile devra passer librement dans un gabarit ayant le profil donné au paragraphe 4 2 et les dimensions indiquées ci-dessous<br/>This battery shall pass freely through a gauge having the form shown in Sub-clause 4 2 and having the dimensions below</p> |                           | Dimension | Max | Min | A/B | 3,6    | 3,3    | M |       | 3,8   | N |       | 3,8   | Ø | 11,6  | 11,25 |
| Dimension                                                                                                                  | Max      | Min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| A/B                                                                                                                        | 3,6      | 3,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| M                                                                                                                          |          | 3,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| N                                                                                                                          |          | 3,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| Ø                                                                                                                          | 11,6     | 11,25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| Marquage, le paragraphe 6 2 est applicable<br>Marking Sub-clause 6 2 is applicable                                         |          | <table><tr><th>Dimension</th><th>Max</th><th>Min</th></tr><tr><td>D</td><td>11,617</td><td>11,606</td></tr><tr><td>d</td><td>9,614</td><td>9,605</td></tr><tr><td>H</td><td>3,612</td><td>3,604</td></tr><tr><td>h</td><td>2,608</td><td>2,602</td></tr></table> <p>Résistance des contacts à la pression, voir le paragraphe 5 2 1<br/>Contact pressure resistance see Sub-clause 5 2 1</p> <p>La surface cylindrique est reliée au contact positif<br/>The cylindrical surface is connected to the positive terminal</p> <p>La partie plane du contact négatif doit dépasser<br/>The flat of the negative contact must project</p> <p>Echelle, 4:1<br/>Scale 4 1</p>                                                                                                       |                           | Dimension | Max | Min | D   | 11,617 | 11,606 | d | 9,614 | 9,605 | H | 3,612 | 3,604 | h | 2,608 | 2,602 |
| Dimension                                                                                                                  | Max      | Min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| D                                                                                                                          | 11,617   | 11,606                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| d                                                                                                                          | 9,614    | 9,605                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| H                                                                                                                          | 3,612    | 3,604                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| h                                                                                                                          | 2,608    | 2,602                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| Les piles correspondant à cette feuille de spécification physique sont:<br>Batteries complying with this specification are |          | } MR42, NR42 SR42, TR42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information see IEC Publication 86 1             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                           |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| 86-2-IEC-R42                                                                                                               |          | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86-2 – August 1984                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                         | <b>Pile MR42</b>                                       |                                           | <b>Battery MR42</b>                                                                |                                                                                                  | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         | <b>Tension nominale 1,35 V, Nominal voltage 1 35 V</b> |                                           |                                                                                    |                                                                                                  | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                                        |                                           |                                                                                    |                                                                                                  | 86 2 IEC MR42              |  |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                                        |                                           |                                                                                    |                                                                                                  |                            |  |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |                                                        | Durée minimale<br><i>Minimum duration</i> |                                                                                    | Applications                                                                                     |                            |  |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Cycle journalier<br><i>Daily period</i> | Tension d'arrêt<br><i>End point</i><br>(V)             | Initiale<br><i>Initial</i>                | Après 12 mois<br>de magasinage<br><i>After 12 months<br/>storage</i>               |                                                                                                  |                            |  |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 24 h                                    | 1,2                                                    |                                           |                                                                                    | Montres électroniques (L C D)<br><i>Electronic watches (L C D)</i>                               |                            |  |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1)                                      | 1,2                                                    |                                           |                                                                                    | Montres électroniques (L C D) avec éclairage<br><i>Electronic watches (L C D) with backlight</i> |                            |  |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2)                                      | 1,1                                                    |                                           |                                                                                    | Montres électroniques (L E D)<br><i>Electronic watches (L E D)</i>                               |                            |  |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 24 h                                    | 1,2                                                    |                                           |                                                                                    | Montres électroniques (Q S M)<br><i>Electronic watches (Q S M)</i>                               |                            |  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1 h                                     | 1 2                                                    |                                           |                                                                                    | Calculatrices de poche (L C D)<br><i>Pocket calculators (L C D)</i>                              |                            |  |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 24 h                                    | 1,2                                                    |                                           |                                                                                    | Essai de capacité<br><i>Capacity test</i>                                                        |                            |  |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 24 h                                    | 1,2                                                    |                                           |                                                                                    | Essai de capacité<br><i>Capacity test</i>                                                        |                            |  |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3)                                      | 1,2                                                    |                                           |                                                                                    | 4)                                                                                               |                            |  |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5)                                      | 1,1                                                    |                                           |                                                                                    | 6)                                                                                               |                            |  |
| 0,625                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12 h                                    | 0,9                                                    | 30 h                                      | 24 h                                                                               | Appareils de correction auditive<br><i>Hearing aids</i>                                          |                            |  |
| <div><div>1) 24 h par jour plus 100 Ω pendant 2 s à des intervalles horaires pen<br/>dant 8 h consécutives par jour<br/>24 h per day plus 100 Ω for 2 s at hourly intervals for 8 consecutive<br/>hours per day</div><div>2) 24 h par jour plus 47 Ω pendant 2 s à des intervalles horaires<br/>24 h per day plus 47 Ω for 2 s at hourly intervals</div><div>3) 24 h par jour plus 100 Ω pendant 2 s par jour<br/>24 h per day plus 100 Ω for 2 s per day</div><div>4) Essai accéléré pour montres électroniques (L C D) avec éclairage<br/>Accelerated test for electronic watches (L C D) with backlight</div><div>5) 24 h par jour plus 47 Ω pendant 2 s par jour<br/>24 h per day plus 47 Ω for 2 s per day</div><div>6) Essai accéléré pour montres électroniques (L E D)<br/>Accelerated test for electronic watches (L E D)</div></div> |                                         |                                                        |                                           |                                                                                    |                                                                                                  |                            |  |
| NOTE: Pour les essais d'acceptation, voir le paragraphe 8 5<br><i>NOTE For acceptance tests see Sub-clause 8 5</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |                                                        |                                           |                                                                                    |                                                                                                  |                            |  |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R42<br><i>For the physical detail of this battery see physical specification sheet R42</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         |                                                        |                                           |                                                                                    |                                                                                                  |                            |  |
| Pour information générale, voir Publication 86 1 de la CEI<br><i>For general information see IEC Publication 86 1</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                                        |                                           |                                                                                    |                                                                                                  |                            |  |
| 86-2-IEC-MR42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         |                                                        |                                           | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86-2 – December 1986 |                                                                                                  |                            |  |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------|--|
|                                                                                                                                                                                                                                                                           |                                         | <b>Pile NR42</b>                                     |                                           | <b>Battery NR42</b>                                                                |                                                                       | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                                                                            |                                         | <b>Tension nominale 1,4 V, Nominal voltage 1 4 V</b> |                                           |                                                                                    |                                                                       | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                                                                            |                                         |                                                      |                                           |                                                                                    |                                                                       | 86 2 IEC- NR42             |  |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                                                                      |                                         |                                                      |                                           |                                                                                    |                                                                       |                            |  |
| Conditions                                                                                                                                                                                                                                                                                                                                                 |                                         |                                                      | Durée minimale<br><i>Minimum duration</i> |                                                                                    | Applications                                                          |                            |  |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                                                                                                                                                                                                     | Cycle journalier<br><i>Daily period</i> | Tension d'arrêt<br><i>End point</i><br>(V)           | Initiale<br><i>Initial</i>                | Après 12 mois<br>de magasinage<br><i>After 12 months<br/>storage</i>               |                                                                       |                            |  |
| 625                                                                                                                                                                                                                                                                                                                                                        | 12 h                                    | 0,9                                                  | 30 h                                      | 24 h                                                                               | Appareils de correction auditive<br><i>Hearing aids</i>               |                            |  |
| 33 k                                                                                                                                                                                                                                                                                                                                                       | 24 h                                    | 1,2                                                  |                                           |                                                                                    | Essai de capacité<br><i>Capacity test</i>                             |                            |  |
| 15 k                                                                                                                                                                                                                                                                                                                                                       | 24 h                                    | 1 2                                                  |                                           |                                                                                    | Essai de capacité<br><i>Capacity test</i>                             |                            |  |
| 18 k                                                                                                                                                                                                                                                                                                                                                       | 1 h                                     | 1,2                                                  |                                           |                                                                                    | Calculatrices de poche (L C D )<br><i>Pocket calculators (L C D )</i> |                            |  |
| 1,8 k                                                                                                                                                                                                                                                                                                                                                      | 1) <sup>1)</sup>                        | 0,9                                                  |                                           |                                                                                    | 2) <sup>2)</sup>                                                      |                            |  |
| <div><div><div>1)<sup>1)</sup> 24 h par jour, plus 39 Ω pendant 1 s toutes les 6 s pendant 5 min par jour<br/>24 h per day plus 39 Ω for 1 s every 6 s for 5 min per day</div><div>2)<sup>2)</sup> Essai d'application accéléré pour appareils photographiques automa-<br/>tiques<br/>Accelerated application test for automatic cameras</div></div></div> |                                         |                                                      |                                           |                                                                                    |                                                                       |                            |  |
| <div><div><div>Pour plus de détails sur cette pile, voir la feuille de spécification physique R42<br/>For the physical detail of this battery see physical specification sheet R42</div><div>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information see IEC Publication 86-1</div></div></div>                             |                                         |                                                      |                                           |                                                                                    |                                                                       |                            |  |
| 86-2-IEC- NR42                                                                                                                                                                                                                                                                                                                                             |                                         |                                                      |                                           | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986 |                                                                       |                            |  |

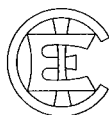
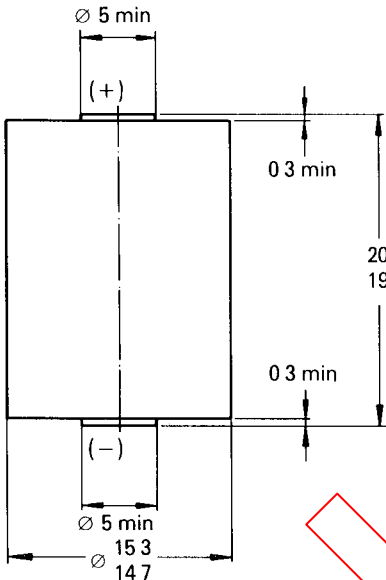
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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Pile SR42</b>                                       |                                            | <b>Battery SR42</b>                                                                |                                                                                                    | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Tension nominale 1,55 V, Nominal voltage 1.55 V</b> |                                            |                                                                                    |                                                                                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |                                            |                                                                                    |                                                                                                    | 86 2 IEC SR42              |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                        |                                            |                                                                                    |                                                                                                    |                            |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                        |                                            |                                                                                    | Applications                                                                                       |                            |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Cycle journalier<br><i>Daily period</i>                | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                    |                                                                                                    |                            |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 24 h                                                   | 1,2                                        |                                                                                    | Montres électroniques (L C D )<br><i>Electronic watches (L C D )</i>                               |                            |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1)                                                     | 1,2                                        |                                                                                    | Montres électroniques (L C D ) avec éclairage<br><i>Electronic watches (L C D ) with backlight</i> |                            |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2)                                                     | 1,1                                        |                                                                                    | Montres électroniques (L E D )<br><i>Electronic watches (L E D )</i>                               |                            |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 24 h                                                   | 1,2                                        |                                                                                    | Montres électroniques (Q S M )<br><i>Electronic watches (Q S M )</i>                               |                            |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1 h                                                    | 1,2                                        |                                                                                    | Calculatrices de poche (L C D )<br><i>Pocket calculator s (L C D )</i>                             |                            |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 24 h                                                   | 1,2                                        |                                                                                    | Essai de capacité<br><i>Capacity test</i>                                                          |                            |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 24 h                                                   | 1,2                                        |                                                                                    | Essai de capacité<br><i>Capacity test</i>                                                          |                            |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3)                                                     | 1,2                                        |                                                                                    | 4)                                                                                                 |                            |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5)                                                     | 1,1                                        |                                                                                    | 6)                                                                                                 |                            |
| <div><div>1) 24 h par jour plus 100 Ω pendant 2 s à des intervalles horaires pendant 8 h consécutives par jour<br/>24 h per day plus 100 Ω for 2 s at hourly intervals for 8 consecutive hours per day</div><div>2) 24 h par jour plus 47 Ω pendant 2 s à des intervalles horaires<br/>24 h per day plus 47 Ω for 2 s at hourly intervals</div><div>3) 24 h par jour plus 100 Ω pendant 2 s par jour<br/>24 h per day plus 100 Ω for 2 s per day</div><div>4) Essai accéléré pour montres électroniques (L C D ) avec éclairage<br/>Accelerated test for electronic watches (L C D ) with backlight</div><div>5) 24 h par jour plus 47 Ω pendant 2 s par jour<br/>24 h per day plus 47 Ω for 2 s per day</div><div>6) Essai accéléré pour montres électroniques (L E D )<br/>Accelerated test for electronic watches (L E D )</div></div> <div>NOTE: Pour les essais d acceptance, voir le paragraphe 8 5<br/>NOTE For acceptance tests see Sub clause 8 5</div> <div>Pour plus de détails sur cette pile, voir la feuille de spécification physique R42<br/>For the physical detail of this battery see physical specification sheet R42</div> <div>Pour information générale, voir Publication 86 1 de la CEI<br/>For general information see IEC Publication 86-1</div> |                                                        |                                            |                                                                                    |                                                                                                    |                            |
| 86-2-IEC-SR42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                        |                                            | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986 |                                                                                                    |                            |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------|--------------|----------------------------|
|                                                                                                                                                                                                                                | <b>Pile TR42</b>                                       |                                            | <b>Battery TR42</b>                                                                       |              | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                 | <b>Tension nominale 1,55 V, Nominal voltage 1 55 V</b> |                                            |                                                                                           |              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                 |                                                        |                                            |                                                                                           |              | 86-2-IEC-TR42              |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                           |                                                        |                                            |                                                                                           |              |                            |
| Conditions                                                                                                                                                                                                                                                                                                      |                                                        |                                            |                                                                                           | Applications |                            |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                         | Cycle journalier<br><i>Daily period</i>                | Tension d'arrêt<br><i>End point</i><br>(V) |                                                                                           |              |                            |
| 15                                                                                                                                                                                                                                                                                                              | 24 h                                                   | 1 2                                        |                                                                                           |              |                            |
| Essai de capacité<br><i>Capacity test</i>                                                                                                                                                                                                                                                                       |                                                        |                                            |                                                                                           |              |                            |
| <div>Withdrawing notice: Click to view the full PDF of IEC 60086-2:1987</div>                                                                                                                                                                                                                                   |                                                        |                                            |                                                                                           |              |                            |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R42<br/><i>For the physical detail of this battery see physical specification sheet R42</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information see IEC Publication 86 1</i></p> |                                                        |                                            |                                                                                           |              |                            |
| 86-2-IEC-TR42                                                                                                                                                                                                                                                                                                   |                                                        |                                            | Publication 86 2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i> |              |                            |

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|                                                                                                                              |           |                                                                                                                                                  |                           |
|------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
|                                             | Pile 4R42 | Battery 4R42                                                                                                                                     | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                                                              |           |                                                                                                                                                  | PHYSICAL<br>SPECIFICATION |
|                                                                                                                              |           |                                                                                                                                                  | 86 2 IEC 4R42             |
| Dimensions (en millimètres)                                                                                                  |           | Dimensions (in millimetres)                                                                                                                      |                           |
|                                            |           | <p>La surface cylindrique est isolée des contacts<br/>The cylindrical surface is insulated from the contacts</p> <p>Echelle, 2:1<br/>Scale 2</p> |                           |
| Les piles correspondant à cette feuille de spécification physique sont: }<br>Batteries complying with this specification are |           | 4NR42                                                                                                                                            |                           |
| Pour information générale, voir Publication 86 1 de la CEI<br>For general information see IEC Publication 86-1               |           |                                                                                                                                                  |                           |
| 86-2-IEC-4R42                                                                                                                |           | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986                                                               |                           |

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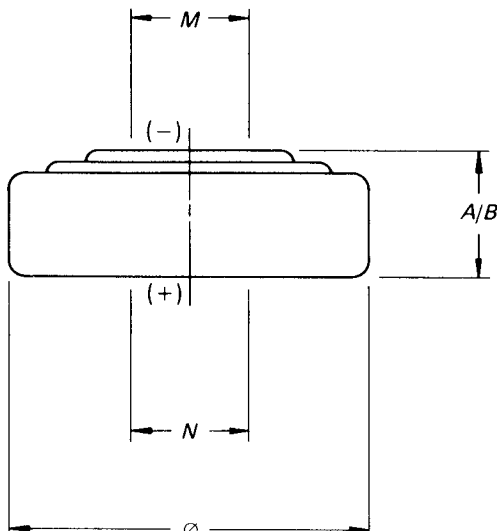
Withdrawn



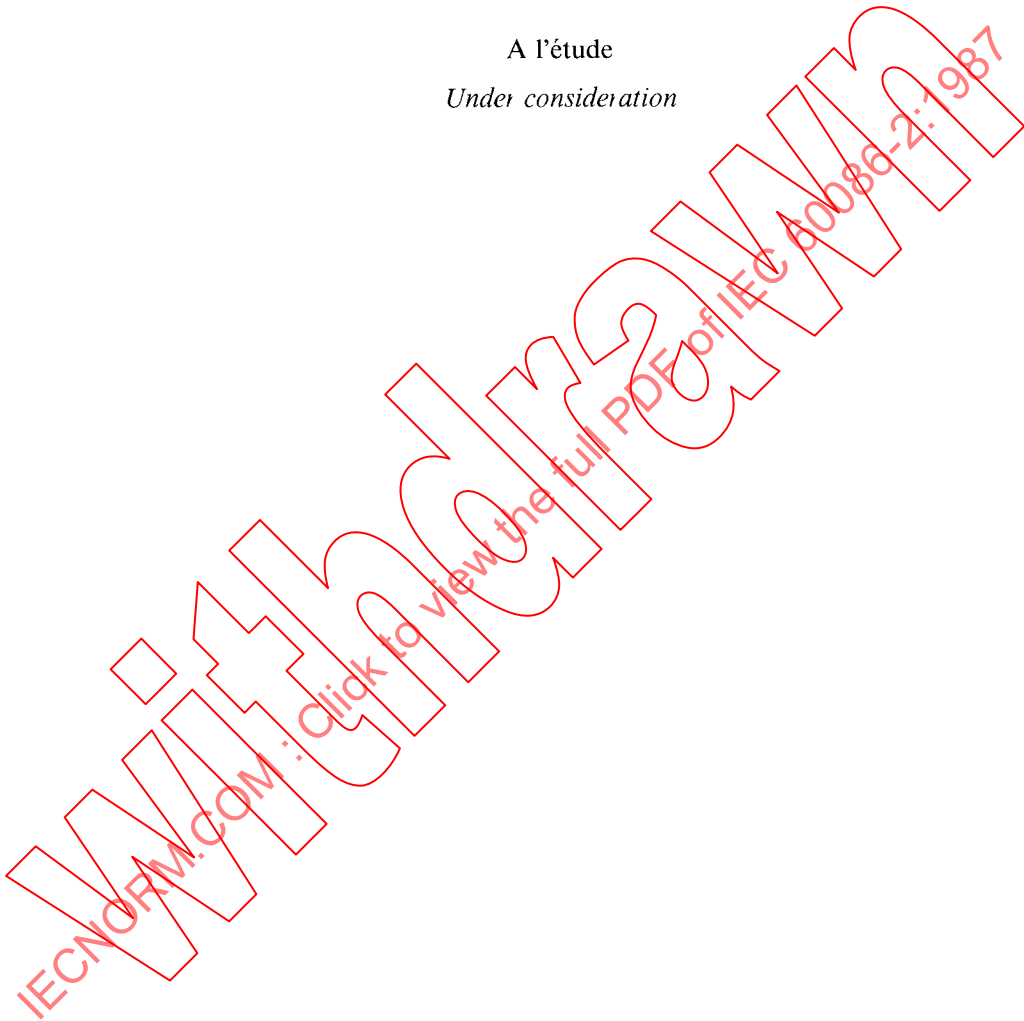
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                           | <b>Pile 4NR42</b>                                    | SPÉCIFICATION<br>DU COUPLE                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Battery 4NR42</b>                                 | SYSTEM<br>SPECIFICATION                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Tension nominale 5,6 V, Nominal voltage 5 6 V</b> | 86 2 IEC 4NR42                                                                       |
| <div> <div>Décharges</div> <div>Discharges</div> <div> <p>A l'étude</p> <p><i>Under consideration</i></p> </div> </div> <p>Pour plus de détails sur cette pile voir la feuille de spécification physique 4R42<br/> <i>For the physical detail of this battery see physical specification sheet 4R42</i></p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/> <i>For general information see IEC Publication 86-1</i></p> |                                                      |                                                                                      |
| <b>86-2-IEC-4NR42</b>                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                      | Publication 86 2 de la CEI – Juillet 1982<br><i>IEC Publication 86-2 – July 1982</i> |

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Withdrawn

|                                                                                                                                                                                                                                                                                                          | Pile R43 | Battery R43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SPÉCIFICATION PHYSIQUE |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------|-----|-----|-----|--------|--------|---|-------|-------|---|-------|-------|---|-------|-------|
|                                                                                                                                                                                                                                                                                                                                                                                           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | PHYSICAL SPECIFICATION |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
|                                                                                                                                                                                                                                                                                                                                                                                           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 86-2-IEC-R43           |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| Dimensions (en millimètres)                                                                                                                                                                                                                                                                                                                                                               |          | Dimensions (in millimetres)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
|                                                                                                                                                                                                                                                                                                          |          | <table><tr><th>Dimension</th><th>Max</th><th>Min</th></tr><tr><td>A/B</td><td>4,2</td><td>3,8</td></tr><tr><td>M</td><td></td><td>3,8</td></tr><tr><td>N</td><td></td><td>3,8</td></tr><tr><td>Ø</td><td>11,6</td><td>11,25</td></tr></table> <p>La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1<br/>Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1</p> <p>La pile devra passer librement dans un gabarit ayant le profil donné au paragraphe 4 2 et les dimensions indiquées ci-dessous<br/>This battery shall pass freely through a gauge having the form shown in Sub-clause 4 2 and having the dimensions below</p> |                        | Dimension | Max | Min | A/B | 4,2    | 3,8    | M |       | 3,8   | N |       | 3,8   | Ø | 11,6  | 11,25 |
| Dimension                                                                                                                                                                                                                                                                                                                                                                                 | Max      | Min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| A/B                                                                                                                                                                                                                                                                                                                                                                                       | 4,2      | 3,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| M                                                                                                                                                                                                                                                                                                                                                                                         |          | 3,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| N                                                                                                                                                                                                                                                                                                                                                                                         |          | 3,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| Ø                                                                                                                                                                                                                                                                                                                                                                                         | 11,6     | 11,25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| Marquage, le paragraphe 6 2 est applicable<br>Marking Sub clause 6 2 is applicable                                                                                                                                                                                                                                                                                                        |          | <table><tr><th>Dimension</th><th>Max</th><th>Min</th></tr><tr><td>D</td><td>11,617</td><td>11,606</td></tr><tr><td>d</td><td>9,614</td><td>9,605</td></tr><tr><td>H</td><td>4,212</td><td>4,204</td></tr><tr><td>h</td><td>3 212</td><td>3,204</td></tr></table> <p>Résistance des contacts à la pression, voir le paragraphe 5 2 1<br/>Contact pressure resistance see Sub-clause 5 2 1</p> <p>La surface cylindrique est reliée au contact positif<br/>The cylindrical surface is connected to the positive terminal</p> <p>La partie plane du contact négatif doit dépasser<br/>The flat of the negative contact must project</p> <p>Echelle, 4:1<br/>Scale 4 1</p>                                                                                                       |                        | Dimension | Max | Min | D   | 11,617 | 11,606 | d | 9,614 | 9,605 | H | 4,212 | 4,204 | h | 3 212 | 3,204 |
| Dimension                                                                                                                                                                                                                                                                                                                                                                                 | Max      | Min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| D                                                                                                                                                                                                                                                                                                                                                                                         | 11,617   | 11,606                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| d                                                                                                                                                                                                                                                                                                                                                                                         | 9,614    | 9,605                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| H                                                                                                                                                                                                                                                                                                                                                                                         | 4,212    | 4,204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| h                                                                                                                                                                                                                                                                                                                                                                                         | 3 212    | 3,204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| <p>L'attention des concepteurs d'équipements est attirée sur la nécessité de concevoir un contact électrique sur le côté de la pile qui ne gêne pas l'arrivée d'air pour les «piles système P»<br/>Equipment designers attention is drawn to the importance of making positive electrical contact on the side of the battery so that air access is not impeded for P system batteries</p> |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| <p>Les piles correspondant à cette feuille de spécification physique sont: } LR43, MR43, PR43, SR43, TR43<br/>Batteries complying with this specification are</p>                                                                                                                                                                                                                         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| <p>Pour information générale voir Publication 86-1 de la CEI<br/>For general information see IEC Publication 86 1</p>                                                                                                                                                                                                                                                                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |
| 86-2-IEC-R43                                                                                                                                                                                                                                                                                                                                                                              |          | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86 2 – August 1984                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |           |     |     |     |        |        |   |       |       |   |       |       |   |       |       |

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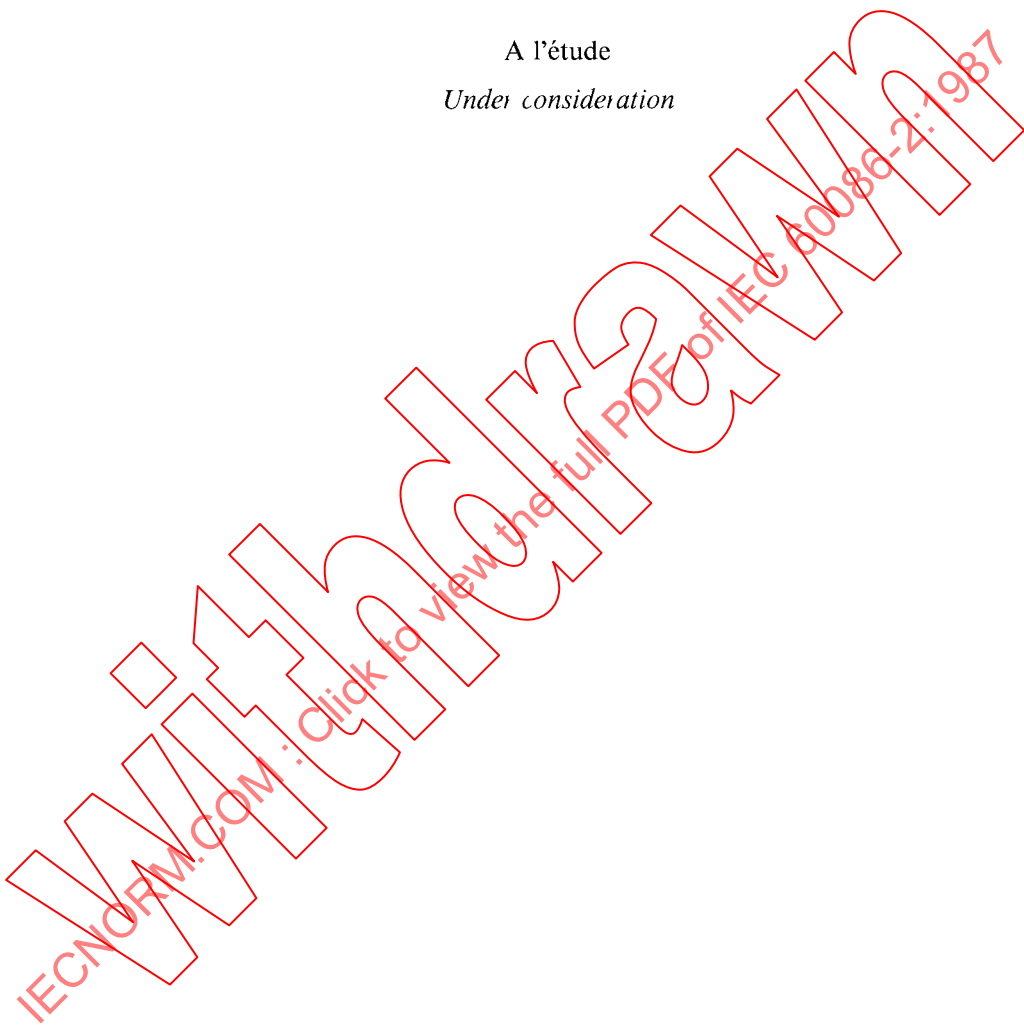
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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Pile LR43</b>                                     | <b>Battery LR43</b>                                                          | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Tension nominale 1,5 V, Nominal voltage 1 5 V</b> |                                                                              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |                                                                              | 86-2-IEC-LR43              |
| <div>Décharges<span>Discharges</span></div> <div>A l'étude<br/>Under consideration</div> <div></div> <div>Pour plus de détails sur cette pile, voir la feuille de spécification physique R43<br/>For the physical detail of this battery see physical specification sheet R43</div> <div>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information see IEC Publication 86 1</div> |                                                      |                                                                              |                            |
| 86-2-IEC-LR43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                      | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86-2 – August 1984 |                            |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------|--|
|                                                                                                                                                                                                                                                                                                                                                                              |                                         | <b>Pile MR43</b>                                       |  | <b>Battery MR43</b>                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                    | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                         | <b>Tension nominale 1,35 V, Nominal voltage 1.35 V</b> |  |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                    | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                         |                                                        |  |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                    | 86 2 IEC MR43              |  |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |                                                        |  |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                    |                            |  |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         |                                                        |  |                                                                                                                                                                                                                                                                                                                                                                                          | Applications                                                                                       |                            |  |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                                                                                                                                                                       | Cycle journalier<br><i>Daily period</i> | Tension d arrêt<br><i>End point</i><br>(V)             |  |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                    |                            |  |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 24 h                                    | 1,2                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                          | Montres électroniques (L C D )<br><i>Electronic watches (L C D )</i>                               |                            |  |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1)                                      | 1,2                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                          | Montres électroniques (L C D ) avec éclairage<br><i>Electronic watches (L C D ) with backlight</i> |                            |  |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2)                                      | 1,1                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                          | Montres électroniques (L E D )<br><i>Electronic watches (L E D )</i>                               |                            |  |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 24 h                                    | 1,2                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                          | Montres électroniques (Q S M )<br><i>Electronic watches (Q S M )</i>                               |                            |  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 h                                     | 1,2                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                          | Calculatrices de poche (L C D )<br><i>Pocket calculators (L C D )</i>                              |                            |  |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 24 h                                    | 1,2                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                          | Essai de capacité<br><i>Capacity test</i>                                                          |                            |  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 24 h                                    | 1,2                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                          | Essai de capacité<br><i>Capacity test</i>                                                          |                            |  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3)                                      | 1,2                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                          | 4)                                                                                                 |                            |  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5)                                      | 1,1                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                          | 6)                                                                                                 |                            |  |
| <p>1) 24 h par jour plus 100 Ω pendant 2 s, à des intervalles horaires pendant 8 h consécutives par jour<br/><i>24 h per day plus 100 Ω for 2 s at hourly intervals for 8 consecutive hours per day</i></p> <p>2) 24 h par jour plus 47 Ω pendant 2 s à des intervalles horaires<br/><i>24 h per day plus 47 Ω for 2 s at hourly intervals</i></p> <p>3) 24 h par jour plus 100 Ω pendant 2 s par jour<br/><i>24 h per day plus 100 Ω for 2 s per day</i></p> |                                         |                                                        |  | <p>4) Essai accéléré pour montres électroniques (L C D ) avec éclairage<br/><i>Accelerated test for electronic watches (L C D ) with backlight</i></p> <p>5) 24 h par jour plus 47 Ω pendant 2 s par jour<br/><i>24 h per day plus 47 Ω for 2 s per day</i></p> <p>6) Essai accéléré pour montres électroniques (L E D )<br/><i>Accelerated test for electronic watches (L E D )</i></p> |                                                                                                    |                            |  |
| <p>NOTE: Pour les essais d acceptation, voir le paragraphe 8 5<br/><i>NOTE For acceptance tests see Sub-clause 8 5</i></p>                                                                                                                                                                                                                                                                                                                                    |                                         |                                                        |  |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                    |                            |  |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R43<br/><i>For the physical detail of this battery see physical specification sheet R43</i></p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/><i>For general information see IEC Publication 86-1</i></p>                                                                                                                                               |                                         |                                                        |  |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                    |                            |  |
| 86-2-IEC-MR43                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |                                                        |  | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86-2 – December 1986</i>                                                                                                                                                                                                                                                                                                |                                                                                                    |                            |  |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Pile PR43</b>                                       | <b>Battery PR43</b>                                                          | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Tension nominale 1,40 V, Nominal voltage 1 40 V</b> |                                                                              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |                                                                              | 86-2-IEC-PR43              |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                        |                                                                              |                            |
| <div>A l'étude<br/>Under consideration</div> <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                |                                                        |                                                                              |                            |
| <p>Note: Un délai minimum de 10 min sera observé entre la mise sous tension et le début de la mesure électrique<br/><i>Note A period of at least 10 min shall elapse between activation and commencement of electrical measurement</i></p> <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R43<br/><i>For the physical detail of this battery see physical specification sheet R43</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information see IEC Publication 86-1</i></p> |                                                        |                                                                              |                            |
| 86-2-IEC-PR43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                        | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86 2 – August 1984 |                            |

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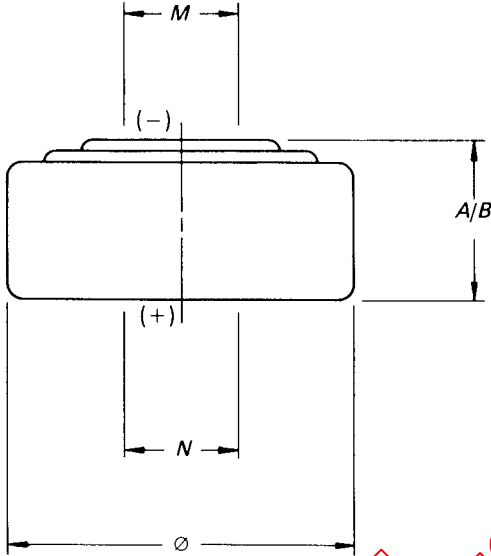
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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------|--|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Pile SR43</b>                                       |                                            | <b>Battery SR43</b>                                                                                |  | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Tension nominale 1,55 V, Nominal voltage 1.55 V</b> |                                            |                                                                                                    |  | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                        |                                            |                                                                                                    |  | 86 2 IEC SR43              |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |                                            |                                                                                                    |  |                            |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                        |                                            | Applications                                                                                       |  |                            |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cycle journalier<br><i>Daily period</i>                | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                                    |  |                            |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 24 h                                                   | 1,2                                        | Montres électroniques (L C D )<br><i>Electronic watches (L C D )</i>                               |  |                            |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1)                                                     | 1,2                                        | Montres électroniques (L C D ) avec éclairage<br><i>Electronic watches (L C D ) with backlight</i> |  |                            |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2)                                                     | 1,1                                        | Montres électroniques (L E D )<br><i>Electronic watches (L E D )</i>                               |  |                            |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 24 h                                                   | 1,2                                        | Montres électroniques (Q S M )<br><i>Electronic watches (Q S M )</i>                               |  |                            |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 h                                                    | 1,2                                        | Calculatrices de poche (L C D )<br><i>Pocket calculators (L C D )</i>                              |  |                            |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 24 h                                                   | 1,2                                        | Essai de capacité<br><i>Capacity test</i>                                                          |  |                            |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 24 h                                                   | 1,2                                        | Essai de capacité<br><i>Capacity test</i>                                                          |  |                            |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3)                                                     | 1,2                                        | 4)                                                                                                 |  |                            |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5)                                                     | 1,1                                        | 6)                                                                                                 |  |                            |
| <div><div>1) 24 h par jour plus 100 Ω pendant 2 s à des intervalles horaires pendant 8 h consécutives par jour<br/>24 h per day plus 100 Ω for 2 s at hourly intervals for 8 consecutive hours per day</div><div>2) 24 h par jour plus 47 Ω pendant 2 s à des intervalles horaires<br/>24 h per day plus 47 Ω for 2 s at hourly intervals</div><div>3) 24 h par jour plus 100 Ω pendant 2 s par jour<br/>24 h per day plus 100 Ω for 2 s per day</div><div>4) Essai accéléré pour montres électroniques (L C D ) avec éclairage<br/>Accelerated test for electronic watches (L C D ) with backlight</div><div>5) 24 h par jour plus 47 Ω pendant 2 s par jour<br/>24 h per day plus 47 Ω for 2 s per day</div><div>6) Essai accéléré pour montres électroniques (L E D )<br/>Accelerated test for electronic watches (L E D )</div></div> <div>NOTE: Pour les essais d acceptance, voir le paragraphe 8 5<br/>NOTE: For acceptance tests see Sub-clause 8 5</div> <div>Pour plus de détails sur cette pile, voir la feuille de spécification physique R43<br/>For the physical detail of this battery see physical specification sheet R43</div> <div>Pour information générale, voir Publication 86 1 de la CEI<br/>For general information see IEC Publication 86 1</div> |                                                        |                                            |                                                                                                    |  |                            |
| 86-2-IEC-SR43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                        |                                            | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986                 |  |                            |

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|                                                                                                                                                                                                                  | <b>Pile TR43</b>                                       |                                     | <b>Battery TR43</b>                                                                |  | SPÉCIFICATION<br>DU COUPLE         |            |
|                                                                                                                                                                                                                                                                                                   | <b>Tension nominale 1,55 V, Nominal voltage 1 55 V</b> |                                     |                                                                                    |  | SYSTEM<br>SPECIFICATION            |            |
|                                                                                                                                                                                                                                                                                                   |                                                        |                                     |                                                                                    |  | 86-2-IEC-TR43                      |            |
| Décharges                                                                                                                                                                                                                                                                                         |                                                        |                                     |                                                                                    |  |                                    | Discharges |
| Conditions                                                                                                                                                                                                                                                                                        |                                                        |                                     |                                                                                    |  |                                    |            |
| Résistance<br>Resistance<br>(kΩ)                                                                                                                                                                                                                                                                  | Cycle journalier<br>Daily period                       | Tension d arrêt<br>End point<br>(V) |                                                                                    |  | Applications                       |            |
| 10                                                                                                                                                                                                                                                                                                | 24 h                                                   | 1,2                                 |                                                                                    |  | Essai de capacité<br>Capacity test |            |
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|                                                                                                                                                                                                                                                                                                   |                                                        |                                     |                                                                                    |  |                                    |            |
|                                                                                                                                                                                                                                                                                                   |                                                        |                                     |                                                                                    |  |                                    |            |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R43<br/>For the physical detail of this battery see physical specification sheet R43</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information see IEC Publication 86 1</p> |                                                        |                                     |                                                                                    |  |                                    |            |
| 86-2-IEC-TR43                                                                                                                                                                                                                                                                                     |                                                        |                                     | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986 |  |                                    |            |

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|-----------------------------------------------------------------------------------|----------|-------------|------------------------|
|  | Pile R44 | Battery R44 | SPÉCIFICATION PHYSIQUE |
|                                                                                   |          |             | PHYSICAL SPECIFICATION |
|                                                                                   |          |             | 86-2-IEC-R44           |

| Dimensions (en millimètres)                                                                                                                                                                                                                                                                                                                                                         |        | Dimensions (in millimetres)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |           |     |     |   |        |        |   |       |       |   |       |       |   |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|-----|-----|-----|-----|-----|---|--|-----|---|--|-----|---|------|-------|-----------|-----|-----|---|--------|--------|---|-------|-------|---|-------|-------|---|-------|-------|
|                                                                                                                                                                                                                                                                                                    |        | <table><tr><th>Dimension</th><th>Max</th><th>Min</th></tr><tr><td>A/B</td><td>5,4</td><td>5,0</td></tr><tr><td>M</td><td></td><td>3,8</td></tr><tr><td>N</td><td></td><td>3,8</td></tr><tr><td>Ø</td><td>11,6</td><td>11,25</td></tr></table> <p>La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1<br/>Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1</p> <p>La pile devra passer librement dans un gabarit ayant le profil donné au paragraphe 4 2 et les dimensions indiquées ci-dessous<br/>This battery shall pass freely through a gauge having the form shown in Sub clause 4 2 and having the dimensions below</p> <table><tr><th>Dimension</th><th>Max</th><th>Min</th></tr><tr><td>D</td><td>11,617</td><td>11,606</td></tr><tr><td>d</td><td>9,614</td><td>9,605</td></tr><tr><td>H</td><td>5,412</td><td>5,404</td></tr><tr><td>h</td><td>4,412</td><td>4,404</td></tr></table> <p>Résistance des contacts à la pression, voir le paragraphe 5 2 1<br/>Contact pressure resistance see Sub-clause 5 2 1</p> <p>La surface cylindrique est reliée au contact positif<br/>The cylindrical surface is connected to the positive terminal</p> <p>La partie plane du contact négatif doit dépasser<br/>The flat of the negative contact must project</p> <p>Echelle, 4:1<br/>Scale 4 1</p> |  | Dimension | Max | Min | A/B | 5,4 | 5,0 | M |  | 3,8 | N |  | 3,8 | Ø | 11,6 | 11,25 | Dimension | Max | Min | D | 11,617 | 11,606 | d | 9,614 | 9,605 | H | 5,412 | 5,404 | h | 4,412 | 4,404 |
| Dimension                                                                                                                                                                                                                                                                                                                                                                           | Max    | Min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |           |     |     |   |        |        |   |       |       |   |       |       |   |       |       |
| A/B                                                                                                                                                                                                                                                                                                                                                                                 | 5,4    | 5,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |           |     |     |   |        |        |   |       |       |   |       |       |   |       |       |
| M                                                                                                                                                                                                                                                                                                                                                                                   |        | 3,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |           |     |     |   |        |        |   |       |       |   |       |       |   |       |       |
| N                                                                                                                                                                                                                                                                                                                                                                                   |        | 3,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |           |     |     |   |        |        |   |       |       |   |       |       |   |       |       |
| Ø                                                                                                                                                                                                                                                                                                                                                                                   | 11,6   | 11,25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |           |     |     |   |        |        |   |       |       |   |       |       |   |       |       |
| Dimension                                                                                                                                                                                                                                                                                                                                                                           | Max    | Min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |           |     |     |   |        |        |   |       |       |   |       |       |   |       |       |
| D                                                                                                                                                                                                                                                                                                                                                                                   | 11,617 | 11,606                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |           |     |     |   |        |        |   |       |       |   |       |       |   |       |       |
| d                                                                                                                                                                                                                                                                                                                                                                                   | 9,614  | 9,605                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |           |     |     |   |        |        |   |       |       |   |       |       |   |       |       |
| H                                                                                                                                                                                                                                                                                                                                                                                   | 5,412  | 5,404                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |           |     |     |   |        |        |   |       |       |   |       |       |   |       |       |
| h                                                                                                                                                                                                                                                                                                                                                                                   | 4,412  | 4,404                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |           |     |     |   |        |        |   |       |       |   |       |       |   |       |       |
| Marquage, le paragraphe 6 2 est applicable<br>Marking Sub clause 6 2 is applicable                                                                                                                                                                                                                                                                                                  |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |           |     |     |   |        |        |   |       |       |   |       |       |   |       |       |
| L'attention des concepteurs d'équipements est attirée sur la nécessité de concevoir un contact électrique sur le côté de la pile qui ne gêne pas l'arrivée d'air pour les « piles système P »<br>Equipment designers attention is drawn to the importance of making positive electrical contact on the side of the battery so that air access is not impeded for P-system batteries |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |           |     |     |   |        |        |   |       |       |   |       |       |   |       |       |
| Les piles correspondant à cette feuille de spécification physique sont:<br>Batteries complying with this specification are                                                                                                                                                                                                                                                          |        | { LR44, MR44, NR44, PR44, SR44, TR44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |           |     |     |   |        |        |   |       |       |   |       |       |   |       |       |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information see IEC Publication 86 1                                                                                                                                                                                                                                                                      |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |           |     |     |   |        |        |   |       |       |   |       |       |   |       |       |

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| 86-2-IEC-R44 | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86 2 – August 1984 |
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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Pile LR44</b>                                     | <b>Battery LR44</b>                                                          | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Tension nominale 1,5 V, Nominal voltage 1.5 V</b> |                                                                              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                      |                                                                              | 86-2-IEC-LR44              |
| <div>Décharges<span style="float:right">Discharges</span></div> <div style="text-align:center"><p>A l'étude</p><p><i>Under consideration</i></p></div> <div style="text-align:center"><p>Withdrawing</p><p>Click to view the full PDF of IEC 60086-2:1987</p></div> <div><p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R44</p><p><i>For the physical detail of this battery see physical specification sheet R44</i></p><p>Pour information générale, voir Publication 86-1 de la CEI</p><p><i>For general information see IEC Publication 86 1</i></p></div> |                                                      |                                                                              |                            |
| 86-2-IEC-LR44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                      | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86 2 – August 1984 |                            |

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|  <b>Pile MR44</b><br><b>Battery MR44</b><br><b>Tension nominale 1,35 V, Nominal voltage 1.35 V</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         |                                            | SPÉCIFICATION<br>DU COUPLE                                                                       |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                            | SYSTEM<br>SPECIFICATION                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                         |                                            | 86 2 IEC MR44                                                                                    |
| Décharges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                            | Discharges                                                                                       |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                         |                                            | Applications                                                                                     |
| Résistance<br><i>Resistance</i><br>( $\Omega$ )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cycle journalier<br><i>Daily period</i> | Tension d'arrêt<br><i>End point</i><br>(V) |                                                                                                  |
| 680 k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24 h                                    | 1.2                                        | Montres électroniques (L C D)<br><i>Electronic watches (L C D)</i>                               |
| 680 k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1) <sup>1)</sup>                        | 1.2                                        | Montres électroniques (L C D) avec éclairage<br><i>Electronic watches (L C D) with backlight</i> |
| 470 k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2) <sup>2)</sup>                        | 1.1                                        | Montres électroniques (L E D)<br><i>Electronic watches (L E D)</i>                               |
| 470 k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24 h                                    | 1.2                                        | Montres électroniques (Q S M)<br><i>Electronic watches (Q S M)</i>                               |
| 18 k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1 h                                     | 1.2                                        | Calculatrices de poche (L C D)<br><i>Pocket calculators (L C D)</i>                              |
| 15 k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 24 h                                    | 1.2                                        | Essai de capacité<br><i>Capacity test</i>                                                        |
| 15 k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3) <sup>3)</sup>                        | 1.2                                        | 4) <sup>4)</sup>                                                                                 |
| 6.8 k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24 h                                    | 1.2                                        | Essai de capacité<br><i>Capacity test</i>                                                        |
| 15 k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5) <sup>5)</sup>                        | 1.1                                        | 6) <sup>6)</sup>                                                                                 |
| 3.9 k                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7) <sup>7)</sup>                        | 0.9                                        | 8) <sup>8)</sup>                                                                                 |
| <p>1) 24 h par jour plus 100 <math>\Omega</math> pendant 2 s à des intervalles horaires pendant 8 h consécutives par jour<br/> <i>24 h per day plus 100 <math>\Omega</math> for 2 s at hourly intervals for 8 consecutive hours per day</i></p> <p>2) 24 h par jour plus 47 <math>\Omega</math> pendant 2 s à des intervalles horaires<br/> <i>24 h per day plus 47 <math>\Omega</math> for 2 s at hourly intervals</i></p> <p>3) 24 h par jour plus 100 <math>\Omega</math> pendant 2 s par jour<br/> <i>24 h per day plus 100 <math>\Omega</math> for 2 s per day</i></p> <p>4) Essai accéléré pour montres électroniques (L C D) avec éclairage<br/> <i>Accelerated test for electronic watches (L C D) with backlight</i></p> <p>5) 24 h par jour plus 47 <math>\Omega</math> pendant 2 s par jour<br/> <i>24 h per day plus 47 <math>\Omega</math> for 2 s per day</i></p> <p>6) Essai accéléré pour montres électroniques (L E D)<br/> <i>Accelerated test for electronic watches (L E D)</i></p> <p>7) 24 h par jour plus 39 <math>\Omega</math> pendant 1 s toutes les 6 s pendant 5 min par jour<br/> <i>24 h per day plus 39 <math>\Omega</math> for 1 s every 6 s for 5 min per day</i></p> <p>8) Essai d'application accéléré pour appareils photographiques automatiques<br/> <i>Accelerated application test for automatic cameras</i></p> |                                         |                                            |                                                                                                  |
| <p>NOTE: Pour les essais d'acceptation, voir le paragraphe 8.5<br/> <i>NOTE For acceptance tests see Sub-clause 8.5</i></p> <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R44<br/> <i>For the physical detail of this battery see physical specification sheet R44</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/> <i>For general information see IEC Publication 86-1</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |                                            |                                                                                                  |
| 86-2-IEC-MR44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |                                            | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i>        |

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                        | <b>Battery NR44</b>                                          |                                                                | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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             | <b>Tension nominale 1,4 V, Nominal voltage 1.4 V</b> |                                    |                                                              |                                                                | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | <b>Pile PR44</b><br><br><b>Battery PR44</b><br><br><b>Tension nominale 1,40 V, Nominal voltage 1 40 V</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SPÉCIFICATION<br>DU COUPLE                                                          |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SYSTEM<br>SPECIFICATION                                                             |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 86-2-IEC-PR44                                                                       |
| Décharges                                                                         | <div data-bbox="1316 324 1436 358" data-label="Text"><i>Discharges</i></div> <div data-bbox="715 629 959 714" data-label="Text"> <p>A l'étude<br/><i>Under consideration</i></p> </div> <div data-bbox="234 1794 1313 1861" data-label="Text"> <p>Note: Un délai minimum de 10 min sera observé entre la mise sous tension et le début de la mesure électrique<br/> <i>Note A period of at least 10 min shall elapse between activation and commencement of electrical measurement</i></p> </div> <div data-bbox="234 1883 995 1948" data-label="Text"> <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R44<br/> <i>For the physical detail of this battery see physical specification sheet R44</i></p> </div> <div data-bbox="234 1971 813 2031" data-label="Text"> <p>Pour information générale, voir Publication 86-1 de la CEI<br/> <i>For general information see IEC Publication 86 1</i></p> </div> |                                                                                     |
|                                                                                   | 86-2-IEC-PR44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Publication 86-2 de la CEI – Août 1984<br><i>IEC Publication 86-2 – August 1984</i> |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         |                                                        |  |                                                                                                  |  |                            |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------|--|--------------------------------------------------------------------------------------------------|--|----------------------------|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         | <b>Pile SR44</b>                                       |  | <b>Battery SR44</b>                                                                              |  | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         | <b>Tension nominale 1,55 V, Nominal voltage 1.55 V</b> |  |                                                                                                  |  | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         |                                                        |  |                                                                                                  |  | 86 2-IEC SR44              |  |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |                                                        |  |                                                                                                  |  |                            |  |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |                                                        |  | Applications                                                                                     |  |                            |  |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Cycle journalier<br><i>Daily period</i> | Tension d arrêt<br><i>End point</i><br>(V)             |  |                                                                                                  |  |                            |  |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24 h                                    | 1,2                                                    |  | Montres électroniques (L C D)<br><i>Electronic watches (L C D)</i>                               |  |                            |  |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1)                                      | 1,2                                                    |  | Montres électroniques (L C D) avec éclairage<br><i>Electronic watches (L C D) with backlight</i> |  |                            |  |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2)                                      | 1,1                                                    |  | Montres électroniques (L E D)<br><i>Electronic watches (L E D)</i>                               |  |                            |  |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24 h                                    | 1,2                                                    |  | Montres électroniques (Q S M)<br><i>Electronic watches (Q S M)</i>                               |  |                            |  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1 h                                     | 1,2                                                    |  | Calculatrices de poche (L C D)<br><i>Pocket calculators (L C D)</i>                              |  |                            |  |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 24 h                                    | 1,2                                                    |  | Essai de capacité<br><i>Capacity test</i>                                                        |  |                            |  |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3)                                      | 1,2                                                    |  | 4)                                                                                               |  |                            |  |
| 6 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 24 h                                    | 1,2                                                    |  | Essai de capacité<br><i>Capacity test</i>                                                        |  |                            |  |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5)                                      | 1,1                                                    |  | 6)                                                                                               |  |                            |  |
| 5,6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 7)                                      | 0,9                                                    |  | 8)                                                                                               |  |                            |  |
| <div><div>1) 24 h par jour plus 100 Ω pendant 2 s à des intervalles horaires pendant 8 h consécutives par jour<br/>24 h per day plus 100 Ω for 2 s at hourly intervals for 8 consecutive hours per day</div><div>2) 24 h par jour plus 47 Ω pendant 2 s à des intervalles horaires<br/>24 h per day plus 47 Ω for 2 s at hourly intervals</div><div>3) 24 h par jour plus 100 Ω pendant 2 s par jour<br/>24 h per day plus 100 Ω for 2 s per day</div><div>4) Essai accéléré pour montres électroniques (L C D) avec éclairage<br/>Accelerated test for electronic watches (L C D) with backlight</div></div> <div><div>5) 24 h par jour plus 47 Ω pendant 2 s par jour<br/>24 h per day plus 47 Ω for 2 s per day</div><div>6) Essai accéléré pour montres électroniques (L E D)<br/>Accelerated test for electronic watches (L E D)</div><div>7) 24 h par jour plus 39 Ω pendant 1 s toutes les 6 s pendant 5 min par jour<br/>24 h per day plus 39 Ω for 1 s every 6 s for 5 min per day</div><div>8) Essai d application accéléré pour appareils photographiques automatiques<br/>Accelerated application test for automatic cameras</div></div> |                                         |                                                        |  |                                                                                                  |  |                            |  |
| <div>NOTE: Pour les essais d'acceptation, voir le paragraphe 8 5<br/>NOTE For acceptance tests see Sub-clause 8 5</div> <div>Pour plus de détails sur cette pile, voir la feuille de spécification physique R44<br/>For the physical detail of this battery see physical specification sheet R44</div> <div>Pour information générale, voir Publication 86 1 de la CEI<br/>For general information see IEC Publication 86-1</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                         |                                                        |  |                                                                                                  |  |                            |  |
| 86-2-IEC-SR44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |                                                        |  | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986               |  |                            |  |

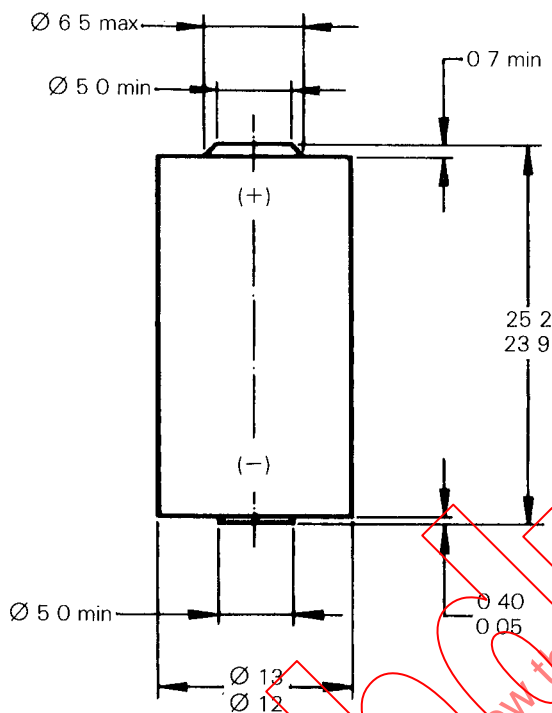
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|                                                                                                                                                                                                                                | <b>Pile TR44</b>                                       |                                            | <b>Battery TR44</b>                                                                       | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                 | <b>Tension nominale 1,55 V, Nominal voltage 1.55 V</b> |                                            |                                                                                           | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                 |                                                        |                                            |                                                                                           | 86-2-IEC-TR44              |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                           |                                                        |                                            |                                                                                           |                            |
| Conditions                                                                                                                                                                                                                                                                                                      |                                                        |                                            |                                                                                           | Applications               |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                         | Cycle journalier<br><i>Daily period</i>                | Tension d'arrêt<br><i>End point</i><br>(V) |                                                                                           |                            |
| 6 8                                                                                                                                                                                                                                                                                                             | 24 h                                                   | 1,2                                        |                                                                                           |                            |
| Essai de capacité<br><i>Capacity test</i>                                                                                                                                                                                                                                                                       |                                                        |                                            |                                                                                           |                            |
| <div>Withdrawing</div> <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1986</div>                                                                                                                                                                                                                  |                                                        |                                            |                                                                                           |                            |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R44<br/><i>For the physical detail of this battery see physical specification sheet R44</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information see IEC Publication 86 1</i></p> |                                                        |                                            |                                                                                           |                            |
| 86-2-IEC-TR44                                                                                                                                                                                                                                                                                                   |                                                        |                                            | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i> |                            |

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|                                                                                   |           |              |                           |
|-----------------------------------------------------------------------------------|-----------|--------------|---------------------------|
|  | Pile 4R44 | Battery 4R44 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |           |              | PHYSICAL<br>SPECIFICATION |
|                                                                                   |           |              | 86-2-IEC-4R44             |

|                             |                             |
|-----------------------------|-----------------------------|
| Dimensions (en millimètres) | Dimensions (in millimetres) |
|-----------------------------|-----------------------------|



La surface cylindrique est isolée des contacts  
The cylindrical surface is insulated from the contacts

Echelle, 2:1  
Scale 2 1

Les piles correspondant à cette feuille de spécification physique sont: }  
Batteries complying with this specification are }

Pour information générale, voir Publication 86-1 de la CEI  
For general information see IEC Publication 86-1

86-2-IEC-4R44

Publication 86-2 de la CEI – Décembre 1986  
IEC Publication 86 2 – December 1986

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|                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                                               |  |                                                                                    |                                    |                            |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------|--|------------------------------------------------------------------------------------|------------------------------------|----------------------------|--|
|                                                                                                                                                                                                                                                                                                                            |                                  | Pile 4LR44                                    |  | Battery 4LR44                                                                      |                                    | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                                                                                                                             |                                  | Tension nominale 6,0 V, Nominal voltage 6 0 V |  |                                                                                    |                                    | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                             |                                  |                                               |  |                                                                                    |                                    | 86-2-IEC-4LR44             |  |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                                                                                                                       |                                  |                                               |  |                                                                                    |                                    |                            |  |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |                                               |  |                                                                                    | Applications                       |                            |  |
| Résistance<br>Resistance<br>(kΩ)                                                                                                                                                                                                                                                                                                                                                                            | Cycle journalier<br>Daily period | Tension d arrêt<br>End point<br>(V)           |  |                                                                                    |                                    |                            |  |
| 27                                                                                                                                                                                                                                                                                                                                                                                                          | 1)                               | 3 6                                           |  |                                                                                    | 2)                                 |                            |  |
| 27                                                                                                                                                                                                                                                                                                                                                                                                          | 24 h                             | 3 6                                           |  |                                                                                    | Essai de capacité<br>Capacity test |                            |  |
| 0 1                                                                                                                                                                                                                                                                                                                                                                                                         | 3)                               | 3 6                                           |  |                                                                                    | Essai d impulsion<br>Pulse test    |                            |  |
| <div><div>1) 24 h par jour plus 160 Ω pendant 1 s toutes les 6 s pendant 5 min par jour<br/>24 h per day plus 160 Ω for 1 s every 6 s for 5 min per day</div><div>2) Essai d application accéléré pour appareils photographiques automatiques<br/>Accelerated application test for automatic cameras</div><div>1) 24 h par jour 2 s en débit 1 s circuit ouvert<br/>24 h per day 2 s on 1 s off</div></div> |                                  |                                               |  |                                                                                    |                                    |                            |  |
| <div><div>Pour plus de détails sur cette pile, voir la feuille de spécification physique 4R44<br/>For the physical detail of this battery see physical specification sheet 4R44</div><div>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information see IEC Publication 86 1</div></div>                                                                                       |                                  |                                               |  |                                                                                    |                                    |                            |  |
| 86-2-IEC-4LR44                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                               |  | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986 |                                    |                            |  |

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Withdrawn

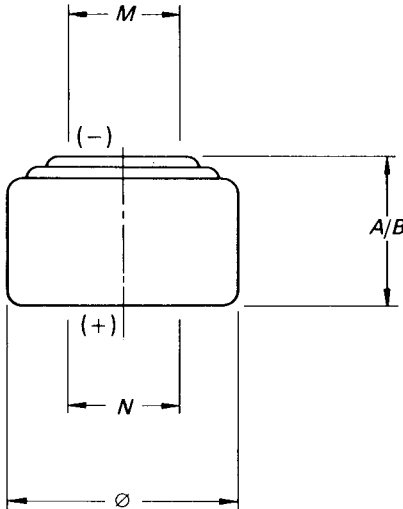


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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                   | <b>Pile 4SR44</b>                                    |                                            | <b>Battery 4SR44</b>                                                               |                                           | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Tension nominale 6,2 V, Nominal voltage 6 2 V</b> |                                            |                                                                                    |                                           | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                    |                                                      |                                            |                                                                                    |                                           | 86-2-IEC-4SR44             |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                                                                                                              |                                                      |                                            |                                                                                    |                                           |                            |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                         |                                                      |                                            |                                                                                    |                                           |                            |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                                                                                                            | Cycle journalier<br><i>Daily period</i>              | Tension d'arrêt<br><i>End point</i><br>(V) |                                                                                    | Applications                              |                            |
| 27                                                                                                                                                                                                                                                                                                                                                                                                 | 1)                                                   | 3 6                                        |                                                                                    | 2)                                        |                            |
| 27                                                                                                                                                                                                                                                                                                                                                                                                 | 24 h                                                 | 3 6                                        |                                                                                    | Essai de capacité<br><i>Capacity test</i> |                            |
| 0 1                                                                                                                                                                                                                                                                                                                                                                                                | 3)                                                   | 3 6                                        |                                                                                    | Essai d'impulsion<br><i>Pulse test</i>    |                            |
| <div>1) 24 h par jour plus 160 Ω pendant 1 s toutes les 6 s pendant 5 min par jour<br/>24 h per day plus 160 Ω for 1 s every 6 s for 5 min per day</div> <div>2) Essai d'application accéléré pour appareils photographiques automatiques<br/>Accelerated application test for automatic cameras</div> <div>3) 24 h par jour 2 s en débit 1 s circuit ouvert<br/>24 h per day 2 s on 1 s off</div> |                                                      |                                            |                                                                                    |                                           |                            |
| <div>Pour plus de détails sur cette pile, voir la feuille de spécification physique 4R44<br/>For the physical detail of this battery see physical specification sheet 4R44</div> <div>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information see IEC Publication 86-1</div>                                                                                        |                                                      |                                            |                                                                                    |                                           |                            |
| 86-2-IEC-4SR44                                                                                                                                                                                                                                                                                                                                                                                     |                                                      |                                            | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986 |                                           |                            |

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|                                                                                   |          |             |                           |
|-----------------------------------------------------------------------------------|----------|-------------|---------------------------|
|  | Pile R48 | Battery R48 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |          |             | PHYSICAL<br>SPECIFICATION |
|                                                                                   |          |             | 86-2-IEC-R48              |

Dimensions (en millimètres)



Marquage, le paragraphe 6 2 est applicable  
Marking Sub clause 6 2 is applicable

Dimensions (in millimetres)

| Dimension | Max | Min  |
|-----------|-----|------|
| A/B       | 5,4 | 5,0  |
| M         |     | 3    |
| N         |     | 3,8  |
| Ø         | 7,9 | 7,55 |

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1  
Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0 1

La pile devra passer librement dans un gabarit ayant le profil donné au paragraphe 4 2 et les dimensions indiquées ci-dessous  
This battery shall pass freely through a gauge having the form shown in Sub clause 4 2 and having the dimensions below

| Dimension | Max   | Min   |
|-----------|-------|-------|
| D         | 7,914 | 7,905 |
| d         | 6,314 | 6,305 |
| H         | 5,412 | 5,404 |
| h         | 4,612 | 4,604 |

La surface cylindrique est reliée au contact positif  
The cylindrical surface is connected to the positive terminal

La partie plane du contact négatif doit dépasser  
The flat of the negative contact must project

Echelle, 4:1  
Scale 4 1

L'attention des concepteurs d'équipements est attirée sur la nécessité de concevoir un contact électrique sur le côté de la pile qui ne gêne pas l'arrivée d'air pour les « piles système P »  
Equipment designers attention is drawn to the importance of making positive electrical contact on the side of the battery so that air access is not impeded for P system batteries

Les piles correspondant à cette feuille de spécification physique sont:  
Batteries complying with this specification are

MR48 NR48 PR48 SR48 TR48

Pour information générale, voir Publication 86-1 de la CEI  
For general information see IEC Publication 86 1

86-2-IEC-R48

Publication 86 2 de la CEI – Décembre 1986  
IEC Publication 86-2 – December 1986

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |                                     |                                                                                    |                                                                                           |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Pile MR48</b>                                       |                                     | <b>Battery MR48</b>                                                                |                                                                                           | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Tension nominale 1,35 V, Nominal voltage 1 35 V</b> |                                     |                                                                                    |                                                                                           | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |                                     |                                                                                    |                                                                                           | 86 2 IEC MR48              |
| DéchargesDischarges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |                                     |                                                                                    |                                                                                           |                            |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                        |                                     |                                                                                    | Applications                                                                              |                            |
| Résistance<br>Resistance<br>(kΩ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cycle journalier<br>Daily period                       | Tension d arrêt<br>End point<br>(V) |                                                                                    |                                                                                           |                            |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 24 h                                                   | 1 2                                 |                                                                                    | Montres électroniques (L C D)<br>Electronic watches (L C D)                               |                            |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1)                                                     | 1 2                                 |                                                                                    | Montres électroniques (L C D) avec éclairage<br>Electronic watches (L C D) with backlight |                            |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2)                                                     | 1,1                                 |                                                                                    | Montres électroniques (L E D)<br>Electronic watches (L E D)                               |                            |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 24 h                                                   | 1 2                                 |                                                                                    | Montres électroniques (Q S M)<br>Electronic watches (Q S M)                               |                            |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24 h                                                   | 1 2                                 |                                                                                    | Essai de capacité<br>Capacity test                                                        |                            |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3)                                                     | 1 2                                 |                                                                                    | 4)                                                                                        |                            |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24 h                                                   | 1 2                                 |                                                                                    | Essai de capacité<br>Capacity test                                                        |                            |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5)                                                     | 1 1                                 |                                                                                    | 6)                                                                                        |                            |
| <div><div>1) 24 h par jour plus 100 Ω pendant 2 s à des intervalles horaires pendant 8 h consécutives par jour<br/>24 h per day plus 100 Ω for 2 s at hourly intervals for 8 consecutive hours per day</div><div>2) 24 h par jour plus 47 Ω pendant 2 s à des intervalles horaires<br/>24 h per day plus 47 Ω for 2 s at hourly intervals</div><div>3) 24 h par jour plus 100 Ω pendant 2 s par jour<br/>24 h per day plus 100 Ω for 2 s per day</div><div>4) Essai accéléré pour montres électroniques (L C D) avec éclairage<br/>Accelerated test for electronic watches (L C D) with backlight</div><div>5) 24 h par jour plus 47 Ω pendant 2 s par jour<br/>24 h per day plus 47 Ω for 2 s per day</div><div>6) Essai accéléré pour montres électroniques (L E D)<br/>Accelerated test for electronic watches (L E D)</div></div> |                                                        |                                     |                                                                                    |                                                                                           |                            |
| <div><div>Pour plus de détails sur cette pile, voir la feuille de spécification physique R48<br/>For the physical detail of this battery see physical specification sheet R48</div><div>Pour information générale, voir Publication 86 1 de la CEI<br/>For general information see IEC Publication 86-1</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |                                     |                                                                                    |                                                                                           |                            |
| 86-2-IEC- MR48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                        |                                     | Publication 86 2 de la CEI – Décembre 1986<br>IEC Publication 86-2 – December 1986 |                                                                                           |                            |

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Withdrawn

|                                                                                                                                                                                                                                                                                                                  |                                                      |                                            |                                                                                           |                                           |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                 | <b>Pile NR48</b>                                     |                                            | <b>Battery NR48</b>                                                                       |                                           | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                  | <b>Tension nominale 1,4 V, Nominal voltage 1 4 V</b> |                                            |                                                                                           |                                           | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                  |                                                      |                                            |                                                                                           |                                           | 86-2-IEC NR48              |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                            |                                                      |                                            |                                                                                           |                                           |                            |
| Conditions                                                                                                                                                                                                                                                                                                       |                                                      |                                            |                                                                                           | Applications                              |                            |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                          | Cycle journalier<br><i>Daily period</i>              | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                           |                                           |                            |
| 15                                                                                                                                                                                                                                                                                                               | 24 h                                                 | 1 2                                        |                                                                                           | Essai de capacité<br><i>Capacity test</i> |                            |
| <div>Withdrawing notice: Click to view the full PDF of IEC 60086-2:1987</div>                                                                                                                                                                                                                                    |                                                      |                                            |                                                                                           |                                           |                            |
|                                                                                                                                                                                                                                                                                                                  |                                                      |                                            |                                                                                           |                                           |                            |
| <p>Pour plus de détails sur cette pile voir la feuille de spécification physique NR48<br/><i>For the physical detail of this battery see physical specification sheet NR48</i></p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/><i>For general information see IEC Publication 86-1</i></p> |                                                      |                                            |                                                                                           |                                           |                            |
| 86-2-IEC-NR48                                                                                                                                                                                                                                                                                                    |                                                      |                                            | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i> |                                           |                            |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Pile PR48</b>                                       | SPÉCIFICATION<br>DU COUPLE                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Battery PR48</b>                                    | SYSTEM<br>SPECIFICATION                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Tension nominale 1,40 V, Nominal voltage 1 40 V</b> | 86-2-IEC-PR48                                                                |
| <div> <div>Décharges</div> <div>Discharges</div> <div> <p>A l'étude</p> <p><i>Under consideration</i></p> </div> </div> <p>Note: Un délai minimum de 10 min sera observé entre la mise sous tension et le début de la mesure électrique<br/> <i>Note A period of at least 10 min shall elapse between activation and commencement of electrical measurement</i></p> <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R48<br/> <i>For the physical detail of this battery see physical specification sheet R48</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/> <i>For general information see IEC Publication 86-1</i></p> |                                                        |                                                                              |
| 86-2-IEC-PR48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                        | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86-2 – August 1984 |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                  | <b>Pile SR48</b><br><br><b>Battery SR48</b><br><br><b>Tension nominale 1,55 V, Nominal voltage 1.55 V</b> |                                                                                    |                                                              | SPÉCIFICATION<br>DU COUPLE                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |                                                                                                           |                                                                                    |                                                              | SYSTEM<br>SPECIFICATION                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |                                                                                                           |                                                                                    |                                                              | 86-2 IEC SR48                                                                                   |
| Décharges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |                                                                                                           | Discharges                                                                         |                                                              |                                                                                                 |
| Conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                                                                                           | Durée minimale<br>Minimum duration                                                 |                                                              | Applications                                                                                    |
| Résistance<br>Resistance<br>(kΩ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Cycle journalier<br>Daily period | Tension d arrêt<br>End point<br>(V)                                                                       | Initiale<br>Initial                                                                | Après 12 mois<br>de magasinage<br>After 12 months<br>storage |                                                                                                 |
| 1,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12 h                             | 0,9                                                                                                       | 40 h                                                                               | 32 h                                                         | Appareils de correction auditive<br>Hearing aids                                                |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 24 h                             | 1,2                                                                                                       |                                                                                    |                                                              | Montres électroniques (L C D)<br>Electronic watches (L C D)                                     |
| 680                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1)                               | 1,2                                                                                                       |                                                                                    |                                                              | Montres électroniques (L C D)<br>avec éclairage<br>Electronic watches (L C D)<br>with backlight |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2)                               | 1,1                                                                                                       |                                                                                    |                                                              | Montres électroniques (L E D)<br>Electronic watches (L E D)                                     |
| 470                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 24 h                             | 1,2                                                                                                       |                                                                                    |                                                              | Montres électroniques (Q S M)<br>Electronic watches (Q S M)                                     |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 24 h                             | 1,2                                                                                                       |                                                                                    |                                                              | Essai de capacité<br>Capacity test                                                              |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3)                               | 1,2                                                                                                       |                                                                                    |                                                              | 4)                                                                                              |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 24 h                             | 1 2                                                                                                       |                                                                                    |                                                              | Essai de capacité<br>Capacity test                                                              |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5)                               | 1 1                                                                                                       |                                                                                    |                                                              | 6)                                                                                              |
| <p>1) 24 h par jour plus 100 Ω pendant 2 s à des intervalles horaires pendant 8 h consécutives par jour<br/>24 h per day plus 100 Ω for 2 s at hourly intervals for 8 consecutive hours per day</p> <p>2) 24 h par jour plus 47 Ω pendant 2 s à des intervalles horaires<br/>24 h per day plus 47 Ω for 2 s at hourly intervals</p> <p>3) 24 h par jour plus 100 Ω pendant 2 s par jour<br/>24 h per day plus 100 Ω for 2 s per day</p> <p>4) Essai accéléré pour montres électroniques (L C D) avec éclairage<br/>Accelerated test for electronic watches (L C D) with backlight</p> <p>5) 24 h par jour plus 47 Ω pendant 2 s par jour<br/>24 h per day plus 47 Ω for 2 s per day</p> <p>6) Essai accéléré pour montres électroniques (L E D)<br/>Accelerated test for electronic watches (L E D)</p> |                                  |                                                                                                           |                                                                                    |                                                              |                                                                                                 |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R48<br/>For the physical detail of this battery see physical specification sheet R48</p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/>For general information see IEC Publication 86-1</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                                                                                           |                                                                                    |                                                              |                                                                                                 |
| 86-2-IEC-SR48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |                                                                                                           | Publication 86 2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986 |                                                              |                                                                                                 |

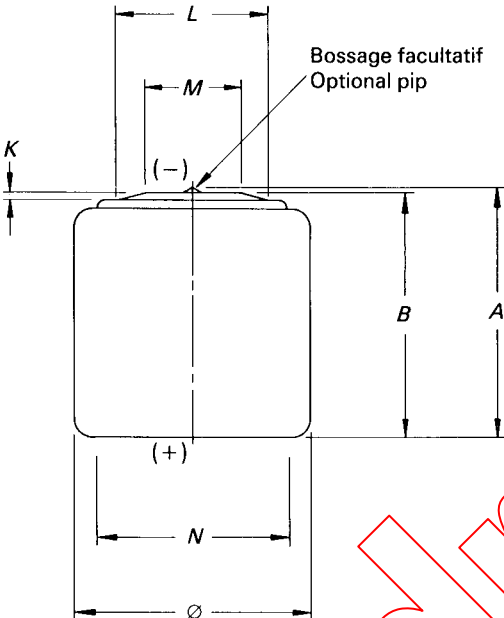
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|                                                                                                                                                                                                                                                                                                                 |                                                        |                                            |                                                                                           |  |                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------|--|-------------------------------------------|
|                                                                                                                                                                                                                                | <b>Pile TR48</b>                                       |                                            | <b>Battery TR48</b>                                                                       |  | SPÉCIFICATION<br>DU COUPLE                |
|                                                                                                                                                                                                                                                                                                                 | <b>Tension nominale 1,55 V, Nominal voltage 1 55 V</b> |                                            |                                                                                           |  | SYSTEM<br>SPECIFICATION                   |
|                                                                                                                                                                                                                                                                                                                 |                                                        |                                            |                                                                                           |  | 86-2-IEC-TR48                             |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                           |                                                        |                                            |                                                                                           |  |                                           |
| Conditions                                                                                                                                                                                                                                                                                                      |                                                        |                                            |                                                                                           |  | Applications                              |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                         | Cycle journalier<br><i>Daily period</i>                | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                           |  |                                           |
| 15                                                                                                                                                                                                                                                                                                              | 24 h                                                   | 1 2                                        |                                                                                           |  | Essai de capacité<br><i>Capacity test</i> |
| <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1986</div> <div>Withdrawal</div>                                                                                                                                                                                                                   |                                                        |                                            |                                                                                           |  |                                           |
|                                                                                                                                                                                                                                                                                                                 |                                                        |                                            |                                                                                           |  |                                           |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R48<br/><i>For the physical detail of this battery see physical specification sheet R48</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information see IEC Publication 86-1</i></p> |                                                        |                                            |                                                                                           |  |                                           |
| 86-2-IEC-TR48                                                                                                                                                                                                                                                                                                   |                                                        |                                            | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i> |  |                                           |

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|                                                                                   |                 |                    |                           |
|-----------------------------------------------------------------------------------|-----------------|--------------------|---------------------------|
|  | <b>Pile R50</b> | <b>Battery R50</b> | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |                 |                    | PHYSICAL<br>SPECIFICATION |
|                                                                                   |                 |                    | 86 2 IEC R50              |

Dimensions (en millimètres)



Marquage, le paragraphe 6 2 est applicable  
Marking Sub clause 6 2 is applicable

Pour la définition des dimensions, voir le para  
graphe 4 1  
For the definition of the dimensions see Sub clause 4 1

La surface cylindrique est reliée au contact positif  
The cylindrical surface is connected to the positive ter-  
minal

Echelle, 2 : 1  
Scale 2 1

| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 16,8 |      |
| B         |      | 16 0 |
| K         |      | 0,2  |
| L         | 10,4 |      |
| M         |      | 6,6  |
| N         |      | 13,0 |
| Ø         | 16,4 | 15 5 |

Les piles correspondant à cette feuille de spécification physique sont :  
Batteries complying with this specification are

} MR50, NR50

Pour information générale, voir Publication 86 1 de la C E I  
For general information see I E C Publication 86-1

86-2-IEC- R50

Publication 86 2 de la CEI – Décembre 1986  
IEC Publication 86 2 – December 1986

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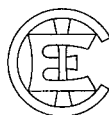


|                                                                                                                                                                                                                                                                                                   |                                  |                                                        |  |                                                                              |                                    |                            |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------|--|------------------------------------------------------------------------------|------------------------------------|----------------------------|--|
|                                                                                                                                                                                                                  |                                  | <b>Pile MR50</b>                                       |  | <b>Battery MR50</b>                                                          |                                    | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                   |                                  | <b>Tension nominale 1,35 V, Nominal voltage 1 35 V</b> |  |                                                                              |                                    | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                   |                                  |                                                        |  |                                                                              |                                    | 86-2-IEC-MR50              |  |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                             |                                  |                                                        |  |                                                                              |                                    |                            |  |
| Conditions                                                                                                                                                                                                                                                                                        |                                  |                                                        |  |                                                                              | Applications                       |                            |  |
| Résistance<br>Resistance<br>(Ω)                                                                                                                                                                                                                                                                   | Cycle journalier<br>Daily period | Tension d arrêt<br>End point<br>(V)                    |  |                                                                              |                                    |                            |  |
| 220                                                                                                                                                                                                                                                                                               | 24 h                             | 0,9                                                    |  |                                                                              | Essai de capacité<br>Capacity test |                            |  |
| <div>With IEC Norm 86-2-1984</div> <div>Click to view the full PDF of IEC 60086-2:1984</div>                                                                                                                                                                                                      |                                  |                                                        |  |                                                                              |                                    |                            |  |
|                                                                                                                                                                                                                                                                                                   |                                  |                                                        |  |                                                                              |                                    |                            |  |
| <p>Pour plus de détails sui cette pile, voir la feuille de spécification physique R50<br/>For the physical detail of this battery see physical specification sheet R50</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information see IEC Publication 86 1</p> |                                  |                                                        |  |                                                                              |                                    |                            |  |
| 86-2-IEC-MR50                                                                                                                                                                                                                                                                                     |                                  |                                                        |  | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86 2 – August 1984 |                                    |                            |  |

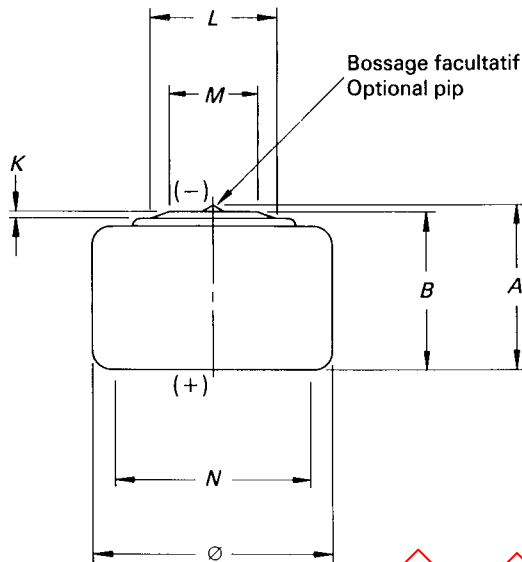
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|                                                                                                                                                                                                                                                                                                                 |                                         |                                                        |  |                                                                                     |                                           |                            |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------|--|-------------------------------------------------------------------------------------|-------------------------------------------|----------------------------|--|
|                                                                                                                                                                                                                                |                                         | <b>Pile NR50</b>                                       |  | <b>Battery NR50</b>                                                                 |                                           | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                                 |                                         | <b>Tension nominale 1,35 V, Nominal voltage 1 35 V</b> |  |                                                                                     |                                           | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                                 |                                         |                                                        |  |                                                                                     |                                           | 86-2-IEC NR50              |  |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                           |                                         |                                                        |  |                                                                                     |                                           |                            |  |
| Conditions                                                                                                                                                                                                                                                                                                      |                                         |                                                        |  |                                                                                     | Applications                              |                            |  |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                                                                                                                                                          | Cycle journalier<br><i>Daily period</i> | Tension d arrêt<br><i>End point</i><br>(V)             |  |                                                                                     |                                           |                            |  |
| 220                                                                                                                                                                                                                                                                                                             | 24 h                                    | 0,9                                                    |  |                                                                                     | Essai de capacité<br><i>Capacity test</i> |                            |  |
| <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1984</div>                                                                                                                                                                                                                                         |                                         |                                                        |  |                                                                                     |                                           |                            |  |
|                                                                                                                                                                                                                                                                                                                 |                                         |                                                        |  |                                                                                     |                                           |                            |  |
|                                                                                                                                                                                                                                                                                                                 |                                         |                                                        |  |                                                                                     |                                           |                            |  |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R50<br/><i>For the physical detail of this battery see physical specification sheet R50</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information see IEC Publication 86 1</i></p> |                                         |                                                        |  |                                                                                     |                                           |                            |  |
| 86-2-IEC-NR50                                                                                                                                                                                                                                                                                                   |                                         |                                                        |  | Publication 86-2 de la CEI – Août 1984<br><i>IEC Publication 86 2 – August 1984</i> |                                           |                            |  |

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|                                                                                   |                 |                    |                           |
|-----------------------------------------------------------------------------------|-----------------|--------------------|---------------------------|
|  | <b>Pile R52</b> | <b>Battery R52</b> | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |                 |                    | PHYSICAL<br>SPECIFICATION |
|                                                                                   |                 |                    | 86-2-IEC R52              |

Dimensions (en millimètres)



Marquage, le paragraphe 6 2 est applicable  
Marking Sub clause 6 2 is applicable

Pour la définition des dimensions, voir le paragraphe 4 1  
For the definition of the dimensions see Sub-clause 4 1

La surface cylindrique est reliée au contact positif  
The cylindrical surface is connected to the positive terminal

Echelle, 2: 1  
Scale 2 1

| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 11,4 |      |
| B         |      | 10,6 |
| K         |      | 0,5  |
| L         | 8,5  |      |
| M         |      | 6,1  |
| N         |      | 13,0 |
| Ø         | 16,4 | 15,5 |

Les piles correspondant à,cette feuille de spécification physique sont: }  
Batteries complying with this specification are

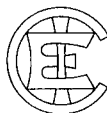
MR52 NR52

Pour information générale, voir Publication 86 1 de la CEI  
For general information see IEC Publication 86-1

86-2-IEC-R52

Publication 86-2 de la CEI – Décembre 1986  
IEC Publication 86 2 – December 1986

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|                                                                                                                                                                                                                                                                                                  |                                  |                                                 |  |                                                                              |                                    |                            |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------|--|------------------------------------------------------------------------------|------------------------------------|----------------------------|--|
|                                                                                                                                                                                                                 |                                  | Pile MR52                                       |  | Battery MR52                                                                 |                                    | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                  |                                  | Tension nominale 1,35 V, Nominal voltage 1 35 V |  |                                                                              |                                    | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                  |                                  |                                                 |  |                                                                              |                                    | 86-2-IEC-MR52              |  |
| DéchargesDischarges                                                                                                                                                                                                                                                                              |                                  |                                                 |  |                                                                              |                                    |                            |  |
| Conditions                                                                                                                                                                                                                                                                                       |                                  |                                                 |  |                                                                              | Applications                       |                            |  |
| Résistance<br>Resistance<br>(Ω)                                                                                                                                                                                                                                                                  | Cycle journalier<br>Daily period | Tension d'arrêt<br>End point<br>(V)             |  |                                                                              |                                    |                            |  |
| 330                                                                                                                                                                                                                                                                                              | 24 h                             | 0,9                                             |  |                                                                              | Essai de capacité<br>Capacity test |                            |  |
| <div>IEC NORM.COM : Click to view the full PDF of IEC 86-2:1984</div> <div>Withdrawing</div>                                                                                                                                                                                                     |                                  |                                                 |  |                                                                              |                                    |                            |  |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R52<br/>For the physical detail of this battery see physical specification sheet R52</p> <p>Pour information générale voir Publication 86-1 de la CEI<br/>For general information see IEC Publication 86-1</p> |                                  |                                                 |  |                                                                              |                                    |                            |  |
| 86-2-IEC-MR52                                                                                                                                                                                                                                                                                    |                                  |                                                 |  | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86 2 – August 1984 |                                    |                            |  |

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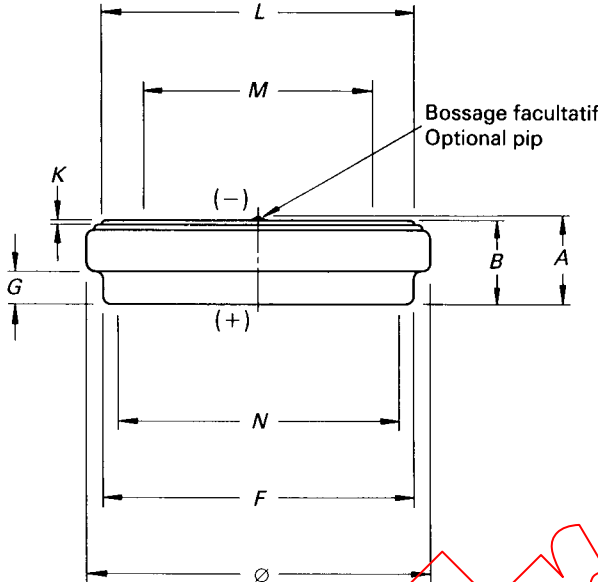
|                                                                                                                                                                                                                                                                                                   |                                  |                                               |  |                                                                              |                                    |                            |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------|--|------------------------------------------------------------------------------|------------------------------------|----------------------------|--|
|                                                                                                                                                                                                                  |                                  | Pile NR52                                     |  | Battery NR52                                                                 |                                    | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                   |                                  | Tension nominale 1,4 V, Nominal voltage 1 4 V |  |                                                                              |                                    | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                   |                                  |                                               |  |                                                                              |                                    | 86-2-IEC-NR52              |  |
| DéchargesDischarges                                                                                                                                                                                                                                                                               |                                  |                                               |  |                                                                              |                                    |                            |  |
| Conditions                                                                                                                                                                                                                                                                                        |                                  |                                               |  |                                                                              | Applications                       |                            |  |
| Résistance<br>Resistance<br>(Ω)                                                                                                                                                                                                                                                                   | Cycle journalier<br>Daily period | Tension d'arrêt<br>End point<br>(V)           |  |                                                                              |                                    |                            |  |
| 330                                                                                                                                                                                                                                                                                               | 24 h                             | 0,9                                           |  |                                                                              | Essai de capacité<br>Capacity test |                            |  |
| <div>IECNORM.COM: Click to view the full PDF of IEC 60086-2:1987</div> <div>Without watermark</div>                                                                                                                                                                                               |                                  |                                               |  |                                                                              |                                    |                            |  |
| <p>Pour plus de détails sui cette pile, voir la feuille de spécification physique R52<br/>For the physical detail of this battery see physical specification sheet R52</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information see IEC Publication 86 1</p> |                                  |                                               |  |                                                                              |                                    |                            |  |
| 86-2-IEC-NR52                                                                                                                                                                                                                                                                                     |                                  |                                               |  | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86-2 – August 1984 |                                    |                            |  |

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Withdr2wn

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|-----------------------------------------------------------------------------------|----------|-------------|---------------------------|--|
|  | Pile R53 | Battery R53 | SPÉCIFICATION<br>PHYSIQUE |  |
|                                                                                   |          |             | PHYSICAL<br>SPECIFICATION |  |
|                                                                                   |          |             | 86 2 IEC-R53              |  |

Dimensions (en millimètres)



Marquage, le paragraphe 6 2 est applicable  
Marking Sub-clause 6 2 is applicable

Dimensions (in millimetres)

| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 6,1  |      |
| B         |      | 5,4  |
| F         | 20,9 |      |
| G         |      | 2,1  |
| K         |      | 0,2  |
| L         | 21,0 |      |
| M         |      | 15,3 |
| N         |      | 18,7 |
| Ø         | 23,2 | 22,6 |

Pour la définition des dimensions, voir le para  
graphe 4 1  
For the definition of the dimensions see Sub-clause 4 1

La surface cylindrique est reliée au contact positif  
The cylindrical surface is connected to the positive ter-  
minal

Echelle, 2 : 1  
Scale 2 1

Les piles correspondant à cette feuille de spécification physique sont: } LR53  
Batteries complying with this specification are

Pour information générale, voir Publication 86 1 de la CEI  
For general information see IEC Publication 86 1

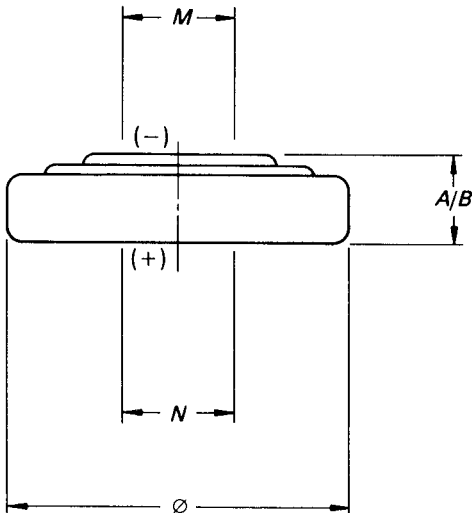
86-2-IEC-R53

Publication 86-2 de la CEI – Décembre 1986  
IEC Publication 86 2 – December 1986

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|                                                                                                                                                                                                                                                                                                                 |                                         |                                                      |  |                                                                                      |                                           |                            |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------|--|--------------------------------------------------------------------------------------|-------------------------------------------|----------------------------|--|
|                                                                                                                                                                                                                                |                                         | <b>Pile LR53</b>                                     |  | <b>Battery LR53</b>                                                                  |                                           | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                                                                                                                                                                                                                                                 |                                         | <b>Tension nominale 1,5 V, Nominal voltage 1.5 V</b> |  |                                                                                      |                                           | SYSTEM<br>SPECIFICATION    |  |
|                                                                                                                                                                                                                                                                                                                 |                                         |                                                      |  |                                                                                      |                                           | 86 2 IEC LR53              |  |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                           |                                         |                                                      |  |                                                                                      |                                           |                            |  |
| Conditions                                                                                                                                                                                                                                                                                                      |                                         |                                                      |  |                                                                                      | Applications                              |                            |  |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                                                                                                                                                          | Cycle journalier<br><i>Daily period</i> | Tension d'arrêt<br><i>End point</i><br>(V)           |  |                                                                                      |                                           |                            |  |
| 470                                                                                                                                                                                                                                                                                                             | 24 h                                    | 0,9                                                  |  |                                                                                      | Essai de capacité<br><i>Capacity test</i> |                            |  |
| <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1987</div> <div>Withdrawing</div>                                                                                                                                                                                                                  |                                         |                                                      |  |                                                                                      |                                           |                            |  |
|                                                                                                                                                                                                                                                                                                                 |                                         |                                                      |  |                                                                                      |                                           |                            |  |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R53<br/><i>For the physical detail of this battery see physical specification sheet R53</i></p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/><i>For general information see IEC Publication 86-1</i></p> |                                         |                                                      |  |                                                                                      |                                           |                            |  |
| 86-2-IEC-LR53                                                                                                                                                                                                                                                                                                   |                                         |                                                      |  | Publication 86 2 de la CEI – Juillet 1982<br><i>IEC Publication 86-2 – July 1982</i> |                                           |                            |  |

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|                                           | Pile R54 | Battery R54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SPÉCIFICATION PHYSIQUE |           |     |     |     |      |      |   |  |     |   |  |     |   |      |       |
|----------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------|-----|-----|-----|------|------|---|--|-----|---|--|-----|---|------|-------|
|                                                                                                                            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PHYSICAL SPECIFICATION |           |     |     |     |      |      |   |  |     |   |  |     |   |      |       |
|                                                                                                                            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 86-2-IEC-R54           |           |     |     |     |      |      |   |  |     |   |  |     |   |      |       |
| Dimensions (en millimètres)                                                                                                |          | Dimensions (in millimetres)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |           |     |     |     |      |      |   |  |     |   |  |     |   |      |       |
|                                           |          | <table><tr><th>Dimension</th><th>Max</th><th>Min</th></tr><tr><td>A/B</td><td>3 05</td><td>2,75</td></tr><tr><td>M</td><td></td><td>3,8</td></tr><tr><td>N</td><td></td><td>3,8</td></tr><tr><td>Ø</td><td>11,6</td><td>11,25</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        | Dimension | Max | Min | A/B | 3 05 | 2,75 | M |  | 3,8 | N |  | 3,8 | Ø | 11,6 | 11,25 |
| Dimension                                                                                                                  | Max      | Min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |           |     |     |     |      |      |   |  |     |   |  |     |   |      |       |
| A/B                                                                                                                        | 3 05     | 2,75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                        |           |     |     |     |      |      |   |  |     |   |  |     |   |      |       |
| M                                                                                                                          |          | 3,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |           |     |     |     |      |      |   |  |     |   |  |     |   |      |       |
| N                                                                                                                          |          | 3,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |           |     |     |     |      |      |   |  |     |   |  |     |   |      |       |
| Ø                                                                                                                          | 11,6     | 11,25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |           |     |     |     |      |      |   |  |     |   |  |     |   |      |       |
| Marquage, le paragraphe 6 2 est applicable<br>Marking Sub clause 6 2 is applicable                                         |          | <p>La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1<br/>Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1</p> <p>Le contact positif doit en principe se faire sur le côté de la pile, mais pourra aussi se faire sur le fond<br/>Positive contact should be made to the side of the battery but may be made to the base</p> <p>Résistance des contacts à la pression, voir le paragraphe 5 2 1<br/>Contact pressure resistance see Sub clause 5 2 1</p> <p>La partie plane du contact négatif doit dépasser<br/>The flat of the negative contact must project</p> <p>Echelle, 4:1<br/>Scale 4 1</p> |                        |           |     |     |     |      |      |   |  |     |   |  |     |   |      |       |
| Les piles correspondant à cette feuille de spécification physique sont:<br>Batteries complying with this specification are |          | } LR54, MR54, SR54, TR54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |           |     |     |     |      |      |   |  |     |   |  |     |   |      |       |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information see IEC Publication 86 1             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |           |     |     |     |      |      |   |  |     |   |  |     |   |      |       |
| 86-2-IEC-R54                                                                                                               |          | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                        |           |     |     |     |      |      |   |  |     |   |  |     |   |      |       |

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Withdrawn



|                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                          | <b>Pile LR54</b>                                     | SPÉCIFICATION<br>DU COUPLE                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Battery LR54</b>                                  | SYSTEM<br>SPECIFICATION                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Tension nominale 1,5 V, Nominal voltage 1 5 V</b> | 86-2-IEC-LR54                                                                       |
| <div> <div>Décharges</div> <div>Discharges</div> <div> <p>A l'étude</p> <p><i>Under consideration</i></p> </div> </div> <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R54<br/> <i>For the physical detail of this battery see physical specification sheet R54</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/> <i>For general information see IEC Publication 86 1</i></p> |                                                      |                                                                                     |
| 86-2-IEC-LR54                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                      | Publication 86-2 de la CEI – Août 1984<br><i>IEC Publication 86-2 – August 1984</i> |

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|-----------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------|--|---------------------|------------------------------------------------------------------------|----------------------------|--|
|  |                                         | <b>Pile MR54</b>                                       |  | <b>Battery MR54</b> |                                                                        | SPÉCIFICATION<br>DU COUPLE |  |
|                                                                                   |                                         | <b>Tension nominale 1,35 V, Nominal voltage 1 35 V</b> |  |                     |                                                                        | SYSTEM<br>SPECIFICATION    |  |
|                                                                                   |                                         |                                                        |  |                     |                                                                        | 86 2 IEC MR54              |  |
| Décharges <span style="float:right">Discharges</span>                             |                                         |                                                        |  |                     |                                                                        |                            |  |
| Conditions                                                                        |                                         |                                                        |  |                     | Applications                                                           |                            |  |
| Résistance<br><i>Resistance</i><br>(kΩ)                                           | Cycle journalier<br><i>Daily period</i> | Tension d arrêt<br><i>End point</i><br>(V)             |  |                     |                                                                        |                            |  |
| 18                                                                                | 1 h                                     | 1,2                                                    |  |                     | Calculatrices de poche<br>(L C D)<br><i>Pocket calculators (L C D)</i> |                            |  |
| 39                                                                                | 24 h                                    | 1,2                                                    |  |                     | Essai de capacité<br><i>Capacity test</i>                              |                            |  |
| 15                                                                                | 24 h                                    | 1 2                                                    |  |                     | Essai de capacité<br><i>Capacity test</i>                              |                            |  |
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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------|---------------------|--------------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                  | <b>Pile SR54</b>                                       |                                     | <b>Battery SR54</b> |                                                              | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                   | <b>Tension nominale 1,55 V, Nominal voltage 1.55 V</b> |                                     |                     |                                                              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                   |                                                        |                                     |                     |                                                              | 86 2 IEC-SR54              |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                             |                                                        |                                     |                     |                                                              |                            |
| Conditions                                                                                                                                                                                                                                                                                        |                                                        |                                     |                     | Applications                                                 |                            |
| Résistance<br>Resistance<br>(kΩ)                                                                                                                                                                                                                                                                  | Cycle journalier<br>Daily period                       | Tension d arrêt<br>End point<br>(V) |                     |                                                              |                            |
| 18                                                                                                                                                                                                                                                                                                | 1 h                                                    | 1,2                                 |                     |                                                              |                            |
| 39                                                                                                                                                                                                                                                                                                | 24 h                                                   | 1,2                                 |                     |                                                              |                            |
| 15                                                                                                                                                                                                                                                                                                | 24 h                                                   | 1,2                                 |                     | Calculatrices de poche (L C D)<br>Pocket calculators (L C D) |                            |
|                                                                                                                                                                                                                                                                                                   |                                                        |                                     |                     | Essai de capacité<br>Capacity test                           |                            |
|                                                                                                                                                                                                                                                                                                   |                                                        |                                     |                     | Essai de capacité<br>Capacity test                           |                            |
| <div>Withdrawing notice: Click to view the full PDF of IEC 86-2-1986</div>                                                                                                                                                                                                                        |                                                        |                                     |                     |                                                              |                            |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R54<br/>For the physical detail of this battery see physical specification sheet R54</p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/>For general information see IEC Publication 86-1</p> |                                                        |                                     |                     |                                                              |                            |
| <div>86-2-IEC-SR54<div>Publication 86-2 de la CEI – Décembre 1986<br/>IEC Publication 86 2 – December 1986</div></div>                                                                                                                                                                            |                                                        |                                     |                     |                                                              |                            |

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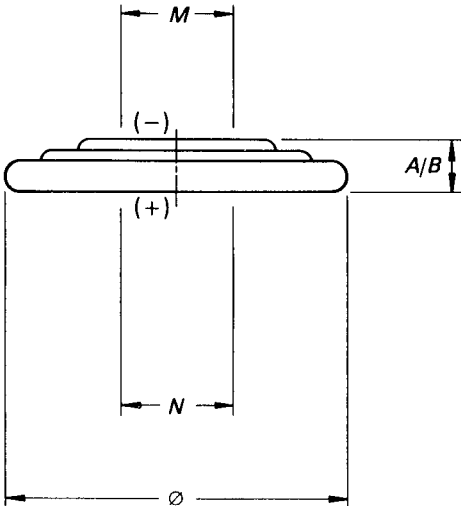
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|                                                                                   | <b>Pile TR54</b>                                       |                                     | <b>Battery TR54</b>                                                                |  | SPÉCIFICATION<br>DU COUPLE         |
|                                                                                                                                                                    | <b>Tension nominale 1,55 V, Nominal voltage 1 55 V</b> |                                     |                                                                                    |  | SYSTEM<br>SPECIFICATION            |
|                                                                                                                                                                    |                                                        |                                     |                                                                                    |  | 86-2-IEC-TR54                      |
| Décharges                                                                                                                                                          |                                                        |                                     |                                                                                    |  | Discharges                         |
|                                                                                                                                                                    |                                                        |                                     |                                                                                    |  |                                    |
| Conditions                                                                                                                                                         |                                                        |                                     |                                                                                    |  | Applications                       |
| Résistance<br>Resistance<br>(kΩ)                                                                                                                                   | Cycle journalier<br>Daily period                       | Tension d arrêt<br>End point<br>(V) |                                                                                    |  |                                    |
| 15                                                                                                                                                                 | 24 h                                                   | 1 2                                 |                                                                                    |  |                                    |
|                                                                                                                                                                    |                                                        |                                     |                                                                                    |  | Essai de capacité<br>Capacity test |
| <div>Withdrawing notice: Click to view the full PDF of IEC 60086-2:1987</div>                                                                                      |                                                        |                                     |                                                                                    |  |                                    |
|                                                                                                                                                                    |                                                        |                                     |                                                                                    |  |                                    |
|                                                                                                                                                                    |                                                        |                                     |                                                                                    |  |                                    |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R54<br>For the physical detail of this battery see physical specification sheet R54 |                                                        |                                     |                                                                                    |  |                                    |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information see IEC Publication 86 1                                                     |                                                        |                                     |                                                                                    |  |                                    |
| 86-2-IEC-TR54                                                                                                                                                      |                                                        |                                     | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986 |  |                                    |

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Withdrawn



|                                                                                   |          |             |                           |
|-----------------------------------------------------------------------------------|----------|-------------|---------------------------|
|  | Pile R55 | Battery R55 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |          |             | PHYSICAL<br>SPECIFICATION |
|                                                                                   |          |             | 86-2-IEC-R55              |

| Dimensions (en millimètres)                                                       |      | Dimensions (in millimetres)                                                                                                                                                                                                                    |  |           |     |     |     |     |      |   |  |     |   |  |     |   |      |       |
|-----------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|-----|-----|-----|-----|------|---|--|-----|---|--|-----|---|------|-------|
|  |      | <table><tr><th>Dimension</th><th>Max</th><th>Min</th></tr><tr><td>A/B</td><td>2,1</td><td>1,85</td></tr><tr><td>M</td><td></td><td>3,8</td></tr><tr><td>N</td><td></td><td>3,8</td></tr><tr><td>Ø</td><td>11,6</td><td>11,25</td></tr></table> |  | Dimension | Max | Min | A/B | 2,1 | 1,85 | M |  | 3,8 | N |  | 3,8 | Ø | 11,6 | 11,25 |
| Dimension                                                                         | Max  | Min                                                                                                                                                                                                                                            |  |           |     |     |     |     |      |   |  |     |   |  |     |   |      |       |
| A/B                                                                               | 2,1  | 1,85                                                                                                                                                                                                                                           |  |           |     |     |     |     |      |   |  |     |   |  |     |   |      |       |
| M                                                                                 |      | 3,8                                                                                                                                                                                                                                            |  |           |     |     |     |     |      |   |  |     |   |  |     |   |      |       |
| N                                                                                 |      | 3,8                                                                                                                                                                                                                                            |  |           |     |     |     |     |      |   |  |     |   |  |     |   |      |       |
| Ø                                                                                 | 11,6 | 11,25                                                                                                                                                                                                                                          |  |           |     |     |     |     |      |   |  |     |   |  |     |   |      |       |

|                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Marquage, le paragraphe 6 2 est applicable<br>Marking Sub clause 6 2 is applicable |  | <p>La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1<br/>Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1</p> <p>Le contact positif doit en principe se faire sur le côté de la pile, mais pourra aussi se faire sur le fond<br/>Positive contact should be made to the side of the battery but may be made to the base</p> <p>Résistance des contacts à la pression, voir le paragraphe 5 2 1<br/>Contact pressure resistance see Sub clause 5 2 1</p> <p>La partie plane du contact négatif doit dépasser<br/>The flat of the negative contact must project</p> <p>Echelle, 4:1<br/>Scale 4 1</p> |  |
|------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                                                                                                                                               |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------|--|
| Les piles correspondant à cette feuille de spécification physique sont: } LR55, SR55, TR55<br>Batteries complying with this specification are |  |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information see IEC Publication 86 1                                |  |

|              |                                                                              |
|--------------|------------------------------------------------------------------------------|
| 86-2-IEC-R55 | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86 2 – August 1984 |
|--------------|------------------------------------------------------------------------------|

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|                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                      |                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                          | <b>Pile LR55</b>                                     | SPÉCIFICATION<br>DU COUPLE                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Battery LR55</b>                                  | SYSTEM<br>SPECIFICATION                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Tension nominale 1,5 V, Nominal voltage 1.5 V</b> | 86-2-IEC-LR55                                                                       |
| <div> <div>Décharges</div> <div>Discharges</div> <div> <p>A l'étude</p> <p><i>Under consideration</i></p> </div> </div> <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R55<br/> <i>For the physical detail of this battery see physical specification sheet R55</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/> <i>For general information see IEC Publication 86-1</i></p> |                                                      |                                                                                     |
| 86-2-IEC-LR55                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                      | Publication 86-2 de la CEI – Août 1984<br><i>IEC Publication 86-2 – August 1984</i> |

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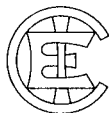
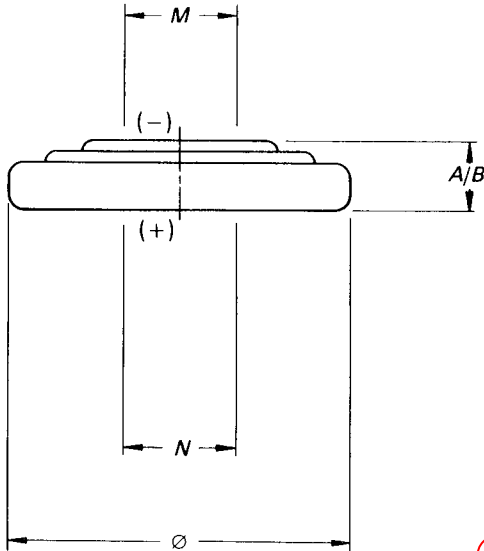
|                                                                                                                                                                           |                                                        |                                            |                                                                                           |                                           |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------|
|                                                                                          | <b>Pile SR55</b>                                       |                                            | <b>Battery SR55</b>                                                                       |                                           | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                           | <b>Tension nominale 1,55 V, Nominal voltage 1.55 V</b> |                                            |                                                                                           |                                           | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                           |                                                        |                                            |                                                                                           |                                           | 86 2-IEC SR55              |
| Décharges <span style="float:right">Discharges</span>                                                                                                                     |                                                        |                                            |                                                                                           |                                           |                            |
| Conditions                                                                                                                                                                |                                                        |                                            |                                                                                           | Applications                              |                            |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                   | Cycle journalier<br><i>Daily period</i>                | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                           |                                           |                            |
| 22                                                                                                                                                                        | 24 h                                                   | 1 2                                        |                                                                                           |                                           |                            |
|                                                                                                                                                                           |                                                        |                                            |                                                                                           | Essai de capacité<br><i>Capacity test</i> |                            |
| <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1986</div> <div>Withdrawing</div>                                                                            |                                                        |                                            |                                                                                           |                                           |                            |
|                                                                                                                                                                           |                                                        |                                            |                                                                                           |                                           |                            |
|                                                                                                                                                                           |                                                        |                                            |                                                                                           |                                           |                            |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R55<br><i>For the physical detail of this battery see physical specification sheet R55</i> |                                                        |                                            |                                                                                           |                                           |                            |
| Pour information générale, voir Publication 86 1 de la CEI<br><i>For general information see IEC Publication 86-1</i>                                                     |                                                        |                                            |                                                                                           |                                           |                            |
| 86-2-IEC-SR55                                                                                                                                                             |                                                        |                                            | Publication 86 2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i> |                                           |                            |

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|                                                                                                                                                                                                                                                                                                                 |                                         |                                            |  |                                                                                           |  |                                           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------|--|-------------------------------------------------------------------------------------------|--|-------------------------------------------|--|
|                                                                                                                                                                                                                                |                                         | <b>Pile TR55</b>                           |  | <b>Battery TR55</b>                                                                       |  | SPÉCIFICATION<br>DU COUPLE                |  |
|                                                                                                                                                                                                                                                                                                                 |                                         |                                            |  |                                                                                           |  | SYSTEM<br>SPECIFICATION                   |  |
|                                                                                                                                                                                                                                                                                                                 |                                         |                                            |  |                                                                                           |  | 86-2-IEC TR55                             |  |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                           |                                         |                                            |  |                                                                                           |  |                                           |  |
| Conditions                                                                                                                                                                                                                                                                                                      |                                         |                                            |  |                                                                                           |  |                                           |  |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                         | Cycle journalier<br><i>Daily period</i> | Tension d'arrêt<br><i>End point</i><br>(V) |  |                                                                                           |  | Applications                              |  |
| 22                                                                                                                                                                                                                                                                                                              | 24 h                                    | 1 2                                        |  |                                                                                           |  | Essai de capacité<br><i>Capacity test</i> |  |
| <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1987</div> <div>Withdrawing</div>                                                                                                                                                                                                                  |                                         |                                            |  |                                                                                           |  |                                           |  |
|                                                                                                                                                                                                                                                                                                                 |                                         |                                            |  |                                                                                           |  |                                           |  |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R55<br/><i>For the physical detail of this battery see physical specification sheet R55</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information see IEC Publication 86 1</i></p> |                                         |                                            |  |                                                                                           |  |                                           |  |
| 86-2-IEC-TR55                                                                                                                                                                                                                                                                                                   |                                         |                                            |  | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i> |  |                                           |  |

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|                                                     | Pile R56 | Battery R56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SPÉCIFICATION<br>PHYSIQUE |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |
|--------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------|-----|-----|-----|-----|-----|---|--|-----|---|--|-----|---|------|-------|
|                                                                                                                                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PHYSICAL<br>SPECIFICATION |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |
|                                                                                                                                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 86-2-IEC-R56              |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |
| Dimensions (en millimètres)                                                                                                          |          | Dimensions (in millimetres)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |
|                                                     |          | <table><tr><th>Dimension</th><th>Max</th><th>Min</th></tr><tr><td>A/B</td><td>2,6</td><td>2,3</td></tr><tr><td>M</td><td></td><td>3,8</td></tr><tr><td>N</td><td></td><td>3,8</td></tr><tr><td>Ø</td><td>11,6</td><td>11,25</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           | Dimension | Max | Min | A/B | 2,6 | 2,3 | M |  | 3,8 | N |  | 3,8 | Ø | 11,6 | 11,25 |
| Dimension                                                                                                                            | Max      | Min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |
| A/B                                                                                                                                  | 2,6      | 2,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |
| M                                                                                                                                    |          | 3,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |
| N                                                                                                                                    |          | 3,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |
| Ø                                                                                                                                    | 11,6     | 11,25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |
| <p>Marquage, le paragraphe 6 2 est applicable<br/>Marking Sub clause 6 2 is applicable</p>                                           |          | <p>La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1<br/>Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1</p> <p>Le contact positif doit en principe se faire sur le côté de la pile, mais pourra aussi se faire sur le fond<br/>Positive contact should be made to the side of the battery but may be made to the base</p> <p>Résistance des contacts à la pression, voir le paragraphe 5 2 1<br/>Contact pressure resistance see Sub-clause 5 2 1</p> <p>La partie plane du contact négatif doit dépasser<br/>The flat of the negative contact must project</p> <p>Echelle, 4:1<br/>Scale 4 1</p> |                           |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |
| <p>Les piles correspondant à cette feuille de spécification physique sont: }<br/>Batteries complying with this specification are</p> |          | LR56, SR56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |
| <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information see IEC Publication 86-1</p>               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |
| 86-2-IEC-R56                                                                                                                         |          | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86 2 – August 1984                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |           |     |     |     |     |     |   |  |     |   |  |     |   |      |       |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                      |                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                        | <b>Pile LR56</b>                                     | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Battery LR56</b>                                  | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Tension nominale 1,5 V, Nominal voltage 1.5 V</b> | 86-2-IEC-LR56              |
| <div> <div>Décharges</div> <div>Discharges</div> <div> <p>A l'étude</p> <p><i>Under consideration</i></p> </div> <div> <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R56</p> <p><i>For the physical detail of this battery see physical specification sheet R56</i></p> </div> <div> <p>Pour information générale, voir Publication 86-1 de la CEI</p> <p><i>For general information see IEC Publication 86-1</i></p> </div> </div> |                                                      |                            |
| <div> <div>86-2-IEC-LR56</div> <div>           Publication 86-2 de la CEI – Août 1984<br/> <i>IEC Publication 86-2 – August 1984</i> </div> </div>                                                                                                                                                                                                                                                                                                                      |                                                      |                            |

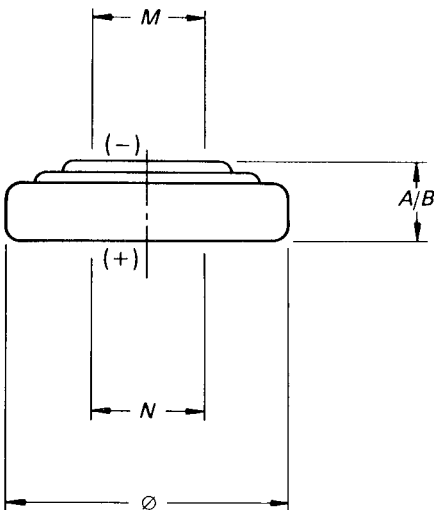
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|                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                        |                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                          | <b>Pile SR56</b>                                       | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Battery SR56</b>                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Tension nominale 1,55 V, Nominal voltage 1.55 V</b> | 86 2 IEC SR56              |
| <div> <div>Décharges</div> <div>Discharges</div> <div> <p>A l'étude</p> <p><i>Under consideration</i></p> </div> </div> <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R56<br/> <i>For the physical detail of this battery see physical specification sheet R56</i></p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/> <i>For general information see IEC Publication 86-1</i></p> |                                                        |                            |
| <div> <div>86-2-IEC-SR56</div> <div>           Publication 86 2 de la CEI – Décembre 1980<br/> <i>IEC Publication 86-2 – December 1980</i> </div> </div>                                                                                                                                                                                                                                                                                  |                                                        |                            |

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|                                                                                   |          |             |                           |
|-----------------------------------------------------------------------------------|----------|-------------|---------------------------|
|  | Pile R57 | Battery R57 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |          |             | PHYSICAL<br>SPECIFICATION |
|                                                                                   |          |             | 86-2-IEC-R57              |

Dimensions (en millimètres)



Marquage, le paragraphe 6 2 est applicable  
Marking Sub clause 6 2 is applicable

| Dimension | Max | Min  |
|-----------|-----|------|
| A/B       | 2,7 | 2,4  |
| M         |     | 3,8  |
| N         |     | 3,8  |
| Ø         | 9,5 | 9,15 |

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1  
Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0.1

Le contact positif doit en principe se faire sur le côté de la pile, mais pourra aussi se faire sur le fond  
Positive contact should be made to the side of the battery but may be made to the base

Résistance des contacts à la pression, voir le paragraphe 5 2 1  
Contact pressure resistance see Sub clause 5 2 1

La partie plane du contact négatif doit dépasser  
The flat of the negative contact must project

Echelle, 4:1  
Scale 4 1

Les piles correspondant à cette feuille de spécification physique sont: }  
Batteries complying with this specification are

SR57, TR57

Pour information générale, voir Publication 86-1 de la CEI  
For general information see IEC Publication 86 1

86-2-IEC-R57

Publication 86-2 de la CEI – Août 1984  
IEC Publication 86-2 – August 1984

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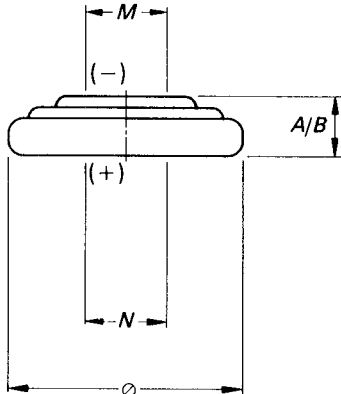


|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                           |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
|  | <b>Pile SR57</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SPÉCIFICATION<br>DU COUPLE                                                                |
|                                                                                   | <b>Battery SR57</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SYSTEM<br>SPECIFICATION                                                                   |
|                                                                                   | <b>Tension nominale 1,55 V, Nominal voltage 1.55 V</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 86 2-IEC SR57                                                                             |
| Décharges                                                                         | <div data-bbox="1331 338 1430 365" data-label="Text"><i>Discharges</i></div> <div data-bbox="719 636 951 719" data-label="Text"> <p>A l'étude<br/><i>Under consideration</i></p> </div> <div data-bbox="245 1877 997 1937" data-label="Text"> <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R57<br/><i>For the physical detail of this battery see physical specification sheet R57</i></p> </div> <div data-bbox="245 1966 817 2022" data-label="Text"> <p>Pour information générale, voir Publication 86 1 de la CEI<br/><i>For general information see IEC Publication 86-1</i></p> </div> |                                                                                           |
|                                                                                   | <b>86-2-IEC-SR57</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Publication 86 2 de la CEI – Décembre 1980<br><i>IEC Publication 86-2 – December 1980</i> |

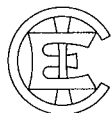
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|                                                                                                                                                                                                                                                                                                                 |                                                        |                                            |                     |                                           |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|---------------------|-------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                | <b>Pile TR57</b>                                       |                                            | <b>Battery TR57</b> |                                           | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                 | <b>Tension nominale 1,55 V, Nominal voltage 1 55 V</b> |                                            |                     |                                           | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                 |                                                        |                                            |                     |                                           | 86-2-IEC-TR57              |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                           |                                                        |                                            |                     |                                           |                            |
| Conditions                                                                                                                                                                                                                                                                                                      |                                                        |                                            |                     |                                           | Applications               |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                         | Cycle journalier<br><i>Daily period</i>                | Tension d arrêt<br><i>End point</i><br>(V) |                     |                                           |                            |
| 22                                                                                                                                                                                                                                                                                                              | 24 h                                                   | 1 2                                        |                     | Essai de capacité<br><i>Capacity test</i> |                            |
| <div>IEC NORM.COM: Click to view the full PDF of IEC 60086-2:1987</div>                                                                                                                                                                                                                                         |                                                        |                                            |                     |                                           |                            |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R57<br/><i>For the physical detail of this battery see physical specification sheet R57</i></p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/><i>For general information see IEC Publication 86 1</i></p> |                                                        |                                            |                     |                                           |                            |
| <div>86-2-IEC-TR57<span style="float:right">Publication 86-2 de la CEI – Décembre 1986<br/>IEC Publication 86 2 – December 1986</span></div>                                                                                                                                                                    |                                                        |                                            |                     |                                           |                            |

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|                                           | Pile R58 | Battery R58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SPÉCIFICATION<br>PHYSIQUE |           |     |     |     |     |      |   |  |   |   |  |     |   |     |      |
|----------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------|-----|-----|-----|-----|------|---|--|---|---|--|-----|---|-----|------|
|                                                                                                                            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PHYSICAL<br>SPECIFICATION |           |     |     |     |     |      |   |  |   |   |  |     |   |     |      |
|                                                                                                                            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 86-2-IEC-R58              |           |     |     |     |     |      |   |  |   |   |  |     |   |     |      |
| Dimensions (en millimètres)                                                                                                |          | Dimensions (in millimetres)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |           |     |     |     |     |      |   |  |   |   |  |     |   |     |      |
|                                           |          | <table><tr><th>Dimension</th><th>Max</th><th>Min</th></tr><tr><td>A/B</td><td>2,1</td><td>1,85</td></tr><tr><td>M</td><td></td><td>3</td></tr><tr><td>N</td><td></td><td>3,8</td></tr><tr><td>Ø</td><td>7,9</td><td>7,55</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           | Dimension | Max | Min | A/B | 2,1 | 1,85 | M |  | 3 | N |  | 3,8 | Ø | 7,9 | 7,55 |
| Dimension                                                                                                                  | Max      | Min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |           |     |     |     |     |      |   |  |   |   |  |     |   |     |      |
| A/B                                                                                                                        | 2,1      | 1,85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |           |     |     |     |     |      |   |  |   |   |  |     |   |     |      |
| M                                                                                                                          |          | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                           |           |     |     |     |     |      |   |  |   |   |  |     |   |     |      |
| N                                                                                                                          |          | 3,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |           |     |     |     |     |      |   |  |   |   |  |     |   |     |      |
| Ø                                                                                                                          | 7,9      | 7,55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |           |     |     |     |     |      |   |  |   |   |  |     |   |     |      |
| Marquage, le paragraphe 6 2 est applicable<br>Marking Sub clause 6 2 is applicable                                         |          | <p>La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1<br/>Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1</p> <p>Le contact positif doit en principe se faire sur le côté de la pile, mais pourra aussi se faire sur le fond<br/>Positive contact should be made to the side of the battery but may be made to the base</p> <p>Résistance des contacts à la pression, voir le paragraphe 5 2 1<br/>Contact pressure resistance see Sub clause 5 2 1</p> <p>La partie plane du contact négatif doit dépasser<br/>The flat of the negative contact must project</p> <p>Echelle, 4:1<br/>Scale 4 1</p> |                           |           |     |     |     |     |      |   |  |   |   |  |     |   |     |      |
| Les piles correspondant à cette feuille de spécification physique sont:<br>Batteries complying with this specification are |          | } SR58, TR58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |           |     |     |     |     |      |   |  |   |   |  |     |   |     |      |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information see IEC Publication 86-1             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |           |     |     |     |     |      |   |  |   |   |  |     |   |     |      |
| 86-2-IEC-R58                                                                                                               |          | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86 2 – August 1984                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |           |     |     |     |     |      |   |  |   |   |  |     |   |     |      |

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|                                                                                                                                                                                                                                                                                                                 |                                                        |                                            |                                                                                           |  |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------|--|----------------------------|
|                                                                                                                                                                                                                                | <b>Pile SR58</b>                                       |                                            | <b>Battery SR58</b>                                                                       |  | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                 | <b>Tension nominale 1,55 V, Nominal voltage 1.55 V</b> |                                            |                                                                                           |  | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                 |                                                        |                                            |                                                                                           |  | 86 2 IEC-SR58              |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                           |                                                        |                                            |                                                                                           |  |                            |
| Conditions                                                                                                                                                                                                                                                                                                      |                                                        |                                            |                                                                                           |  | Applications               |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                         | Cycle journalier<br><i>Daily period</i>                | Tension d'arrêt<br><i>End point</i><br>(V) |                                                                                           |  |                            |
| 47                                                                                                                                                                                                                                                                                                              | 24 h                                                   | 1 2                                        |                                                                                           |  |                            |
| Essai de capacité<br><i>Capacity test</i>                                                                                                                                                                                                                                                                       |                                                        |                                            |                                                                                           |  |                            |
| <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1986</div>                                                                                                                                                                                                                                         |                                                        |                                            |                                                                                           |  |                            |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R58<br/><i>For the physical detail of this battery see physical specification sheet R58</i></p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/><i>For general information see IEC Publication 86-1</i></p> |                                                        |                                            |                                                                                           |  |                            |
| 86-2-IEC-SR58                                                                                                                                                                                                                                                                                                   |                                                        |                                            | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i> |  |                            |

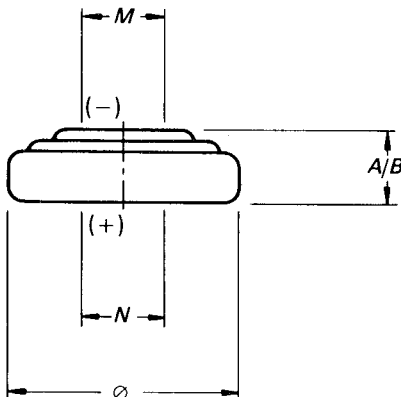
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Withdrawn



|                                                                                                                                                                                                                                                                                                                |                                         |                                                        |  |                                                                                           |  |                                           |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------|--|-------------------------------------------------------------------------------------------|--|-------------------------------------------|--|
|                                                                                                                                                                                                                               |                                         | <b>Pile TR58</b>                                       |  | <b>Battery TR58</b>                                                                       |  | SPÉCIFICATION<br>DU COUPLE                |  |
|                                                                                                                                                                                                                                                                                                                |                                         | <b>Tension nominale 1,55 V, Nominal voltage 1 55 V</b> |  |                                                                                           |  | SYSTEM<br>SPECIFICATION                   |  |
|                                                                                                                                                                                                                                                                                                                |                                         |                                                        |  |                                                                                           |  | 86-2-IEC-TR58                             |  |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                          |                                         |                                                        |  |                                                                                           |  |                                           |  |
| Conditions                                                                                                                                                                                                                                                                                                     |                                         |                                                        |  |                                                                                           |  |                                           |  |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                        | Cycle journalier<br><i>Daily period</i> | Tension d arrêt<br><i>End point</i><br>(V)             |  |                                                                                           |  | Applications                              |  |
| 47                                                                                                                                                                                                                                                                                                             | 24 h                                    | 1 2                                                    |  |                                                                                           |  | Essai de capacité<br><i>Capacity test</i> |  |
| <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1986</div>                                                                                                                                                                                                                                        |                                         |                                                        |  |                                                                                           |  |                                           |  |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R58<br/><i>For the physical detail of this battery see physical specification sheet R58</i></p> <p>Pour information générale voir Publication 86-1 de la CEI<br/><i>For general information see IEC Publication 86 1</i></p> |                                         |                                                        |  |                                                                                           |  |                                           |  |
| 86-2-IEC-TR58                                                                                                                                                                                                                                                                                                  |                                         |                                                        |  | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i> |  |                                           |  |

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|                                                     | Pile R59 | Battery R59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | SPÉCIFICATION<br>PHYSIQUE |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |
|--------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------|-----|-----|-----|-----|-----|---|--|---|---|--|-----|---|-----|------|
|                                                                                                                                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PHYSICAL<br>SPECIFICATION |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |
|                                                                                                                                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 86-2-IEC-R59              |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |
| Dimensions (en millimètres)                                                                                                          |          | Dimensions (in millimetres)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |
|                                                     |          | <table><tr><th>Dimension</th><th>Max</th><th>Min</th></tr><tr><td>A/B</td><td>2,6</td><td>2,3</td></tr><tr><td>M</td><td></td><td>3</td></tr><tr><td>N</td><td></td><td>3,8</td></tr><tr><td>Ø</td><td>7,9</td><td>7,55</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           | Dimension | Max | Min | A/B | 2,6 | 2,3 | M |  | 3 | N |  | 3,8 | Ø | 7,9 | 7,55 |
| Dimension                                                                                                                            | Max      | Min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |
| A/B                                                                                                                                  | 2,6      | 2,3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |
| M                                                                                                                                    |          | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                           |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |
| N                                                                                                                                    |          | 3,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                           |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |
| Ø                                                                                                                                    | 7,9      | 7,55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                           |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |
| <p>Marquage, le paragraphe 6 2 est applicable<br/>Marking Sub-clause 6 2 is applicable</p>                                           |          | <p>La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1<br/>Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1</p> <p>Le contact positif doit en principe se faire sur le côté de la pile, mais pourra aussi se faire sur le fond<br/>Positive contact should be made to the side of the battery but may be made to the base</p> <p>Résistance des contacts à la pression, voir le paragraphe 5 2 1<br/>Contact pressure resistance see Sub clause 5 2 1</p> <p>La partie plane du contact négatif doit dépasser<br/>The flat of the negative contact must project</p> <p>Echelle 4:1<br/>Scale 4 1</p> |                           |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |
| <p>Les piles correspondant à cette feuille de spécification physique sont: }<br/>Batteries complying with this specification are</p> |          | SR59, TR59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |
| <p>Pour information générale voir Publication 86-1 de la CEI<br/>For general information see IEC Publication 86 1</p>                |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                           |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |
| 86-2-IEC-R59                                                                                                                         |          | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86 2 – August 1984                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                           |           |     |     |     |     |     |   |  |   |   |  |     |   |     |      |

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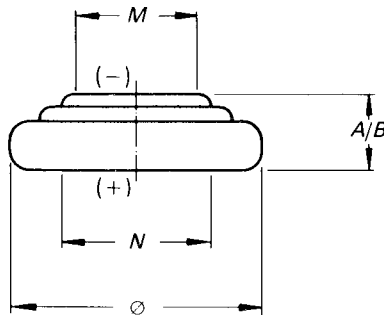
|                                                                                                                                                                    |                                                        |                                                                               |                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------|
|                                                                                   | <b>Pile SR59</b>                                       | <b>Battery SR59</b>                                                           | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                    | <b>Tension nominale 1,55 V, Nominal voltage 1 55 V</b> |                                                                               | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                    |                                                        |                                                                               | 86 2-IEC SR59              |
| Décharges <span style="float:right">Discharges</span>                                                                                                              |                                                        |                                                                               |                            |
| A l'étude<br>Under consideration                                                                                                                                   |                                                        |                                                                               |                            |
| <div>IECNORM.COM : Click to view the full PDF of IEC 60086-2:1987</div>                                                                                            |                                                        |                                                                               |                            |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R59<br>For the physical detail of this battery see physical specification sheet R59 |                                                        |                                                                               |                            |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information see IEC Publication 86-1                                                     |                                                        |                                                                               |                            |
| 86-2-IEC-SR59                                                                                                                                                      |                                                        | Publication 86 2 de la CEI – Juillet 1982<br>IEC Publication 86-2 – July 1982 |                            |

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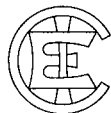
|                                                                                                                                                                           |                                                        |                                            |                                                                                           |                                           |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------|
|                                                                                          | <b>Pile TR59</b>                                       |                                            | <b>Battery TR59</b>                                                                       |                                           | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                           | <b>Tension nominale 1,55 V, Nominal voltage 1 55 V</b> |                                            |                                                                                           |                                           | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                           |                                                        |                                            |                                                                                           |                                           | 86-2-IEC-TR59              |
| Décharges <span style="float:right">Discharges</span>                                                                                                                     |                                                        |                                            |                                                                                           |                                           |                            |
| Conditions                                                                                                                                                                |                                                        |                                            |                                                                                           | Applications                              |                            |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                   | Cycle journalier<br><i>Daily period</i>                | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                           |                                           |                            |
| 33                                                                                                                                                                        | 24 h                                                   | 1 2                                        |                                                                                           |                                           |                            |
|                                                                                                                                                                           |                                                        |                                            |                                                                                           | Essai de capacité<br><i>Capacity test</i> |                            |
| <div>Withdrawing</div> <div>Click to view the full PDF of IEC 60086-2:1987</div>                                                                                          |                                                        |                                            |                                                                                           |                                           |                            |
|                                                                                                                                                                           |                                                        |                                            |                                                                                           |                                           |                            |
|                                                                                                                                                                           |                                                        |                                            |                                                                                           |                                           |                            |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique R59<br><i>For the physical detail of this battery see physical specification sheet R59</i> |                                                        |                                            |                                                                                           |                                           |                            |
| Pour information générale voir Publication 86-1 de la CEI<br><i>For general information see IEC Publication 86 1</i>                                                      |                                                        |                                            |                                                                                           |                                           |                            |
| 86-2-IEC-TR59                                                                                                                                                             |                                                        |                                            | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86-2 – December 1986</i> |                                           |                            |

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|                                             | Pile R60 | Battery R60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SPÉCIFICATION<br>PHYSIQUE |           |     |     |     |      |     |   |  |     |   |  |     |   |     |     |
|------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------|-----|-----|-----|------|-----|---|--|-----|---|--|-----|---|-----|-----|
|                                                                                                                              |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PHYSICAL<br>SPECIFICATION |           |     |     |     |      |     |   |  |     |   |  |     |   |     |     |
|                                                                                                                              |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 86-2-IEC-R60              |           |     |     |     |      |     |   |  |     |   |  |     |   |     |     |
| Dimensions (en millimètres)                                                                                                  |          | Dimensions (in millimetres)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |           |     |     |     |      |     |   |  |     |   |  |     |   |     |     |
|                                             |          | <table><tr><th>Dimension</th><th>Max</th><th>Min</th></tr><tr><td>A/B</td><td>2,15</td><td>1,9</td></tr><tr><td>M</td><td></td><td>3,0</td></tr><tr><td>N</td><td></td><td>3,8</td></tr><tr><td>Ø</td><td>6,8</td><td>6,5</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           | Dimension | Max | Min | A/B | 2,15 | 1,9 | M |  | 3,0 | N |  | 3,8 | Ø | 6,8 | 6,5 |
| Dimension                                                                                                                    | Max      | Min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |           |     |     |     |      |     |   |  |     |   |  |     |   |     |     |
| A/B                                                                                                                          | 2,15     | 1,9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |           |     |     |     |      |     |   |  |     |   |  |     |   |     |     |
| M                                                                                                                            |          | 3,0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |           |     |     |     |      |     |   |  |     |   |  |     |   |     |     |
| N                                                                                                                            |          | 3,8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |           |     |     |     |      |     |   |  |     |   |  |     |   |     |     |
| Ø                                                                                                                            | 6,8      | 6,5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |           |     |     |     |      |     |   |  |     |   |  |     |   |     |     |
| Marquage, le paragraphe 6 2 est applicable<br>Marking Sub-clause 6 2 is applicable                                           |          | <p>La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1<br/>Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1</p> <p>Le contact positif doit en principe se faire sur le côté de la pile, mais pourra aussi se faire sur le fond<br/>Positive contact should be made to the side of the battery but may be made to the base</p> <p>Résistance des contacts à la pression, voir le paragraphe 5 2 1<br/>Contact pressure resistance see Sub-clause 5 2 1</p> <p>La partie plane du contact négatif doit dépasser<br/>The flat of the negative contact must project</p> <p>Echelle, 4:1<br/>Scale 4 1</p> |                           |           |     |     |     |      |     |   |  |     |   |  |     |   |     |     |
| Les piles correspondant à cette feuille de spécification physique sont: }<br>Batteries complying with this specification are |          | SR60, TR60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                           |           |     |     |     |      |     |   |  |     |   |  |     |   |     |     |
| Pour information générale, voir Publication 86-1 de la CEI<br>For general information see IEC Publication 86 1               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                           |           |     |     |     |      |     |   |  |     |   |  |     |   |     |     |
| 86-2-IEC-R60                                                                                                                 |          | Publication 86-2 de la CEI – Août 1984<br>IEC Publication 86 2 – August 1984                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                           |           |     |     |     |      |     |   |  |     |   |  |     |   |     |     |

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|                                                                                                                                                                                                                                                                                                                 |                                                        |                                            |                                                                                           |              |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------|--------------|----------------------------|
|                                                                                                                                                                                                                                | <b>Pile SR60</b>                                       |                                            | <b>Battery SR60</b>                                                                       |              | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                 | <b>Tension nominale 1,55 V, Nominal voltage 1.55 V</b> |                                            |                                                                                           |              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                 |                                                        |                                            |                                                                                           |              | 86 2 IEC SR60              |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                           |                                                        |                                            |                                                                                           |              |                            |
| Conditions                                                                                                                                                                                                                                                                                                      |                                                        |                                            |                                                                                           | Applications |                            |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                         | Cycle journalier<br><i>Daily period</i>                | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                           |              |                            |
| 68                                                                                                                                                                                                                                                                                                              | 24 h                                                   | 1 2                                        |                                                                                           |              |                            |
| Essai de capacité<br><i>Capacity test</i>                                                                                                                                                                                                                                                                       |                                                        |                                            |                                                                                           |              |                            |
| <div>Withdrawing IEC NORM.COM : Click to view the full PDF of IEC 60086-2:1986</div>                                                                                                                                                                                                                            |                                                        |                                            |                                                                                           |              |                            |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R60<br/><i>For the physical detail of this battery see physical specification sheet R60</i></p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/><i>For general information see IEC Publication 86-1</i></p> |                                                        |                                            |                                                                                           |              |                            |
| 86-2-IEC-SR60                                                                                                                                                                                                                                                                                                   |                                                        |                                            | Publication 86-2 de la CEI - Décembre 1986<br><i>IEC Publication 86 2 - December 1986</i> |              |                            |

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|                                                                                                                                                                                                                                                                                                                 |                                                        |                                            |                                                                                           |  |                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------------|--|-------------------------------------------|
|                                                                                                                                                                                                                                | <b>Pile TR60</b>                                       |                                            | <b>Battery TR60</b>                                                                       |  | SPÉCIFICATION<br>DU COUPLE                |
|                                                                                                                                                                                                                                                                                                                 | <b>Tension nominale 1,55 V, Nominal voltage 1 55 V</b> |                                            |                                                                                           |  | SYSTEM<br>SPECIFICATION                   |
|                                                                                                                                                                                                                                                                                                                 |                                                        |                                            |                                                                                           |  | 86-2-IEC-TR60                             |
| Décharges                                                                                                                                                                                                                                                                                                       |                                                        |                                            |                                                                                           |  | Discharges                                |
| Conditions                                                                                                                                                                                                                                                                                                      |                                                        |                                            |                                                                                           |  | Applications                              |
| Résistance<br><i>Resistance</i><br>(kΩ)                                                                                                                                                                                                                                                                         | Cycle journalier<br><i>Daily period</i>                | Tension d arrêt<br><i>End point</i><br>(V) |                                                                                           |  |                                           |
| 68                                                                                                                                                                                                                                                                                                              | 24 h                                                   | 1 2                                        |                                                                                           |  |                                           |
|                                                                                                                                                                                                                                                                                                                 |                                                        |                                            |                                                                                           |  | Essai de capacité<br><i>Capacity test</i> |
| <p>Pour plus de détails sui cette pile, voir la feuille de spécification physique R60<br/><i>For the physical detail of this battery see physical specification sheet R60</i></p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/><i>For general information see IEC Publication 86 1</i></p> |                                                        |                                            |                                                                                           |  |                                           |
| 86-2-IEC-TR60                                                                                                                                                                                                                                                                                                   |                                                        |                                            | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86 2 – December 1986</i> |  |                                           |

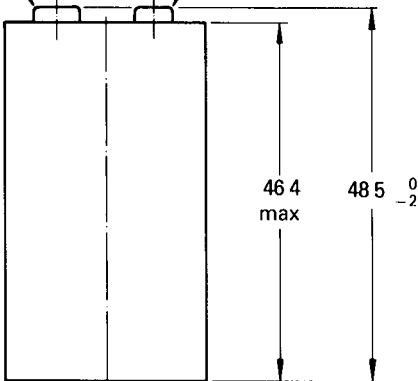
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|                                                                                   |           |              |                           |
|-----------------------------------------------------------------------------------|-----------|--------------|---------------------------|
|  | Pile 6R61 | Battery 6R61 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |           |              | PHYSICAL<br>SPECIFICATION |
|                                                                                   |           |              | 86 2-IEC 6R61             |

Dimensions (en millimètres)

Douille  
Socket  
(-)

Bouton  
Stud  
(+)



17.5 with a tolerance of 0/-2

12.7 ± 0.25

26.5 with a tolerance of 0/-2

Echelle: 1:1  
Scale 1:1

Les piles correspondant à cette feuille de spécification physique sont: }  
Batteries complying with this specification are:

Pour information générale, voir Publication 86-1 de la CEI  
For general information see IEC Publication 86-1

6LR61 6F22

86-2-IEC-6R61

Publication 86-2 de la CEI – Décembre 1986  
IEC Publication 86 2 – December 1986

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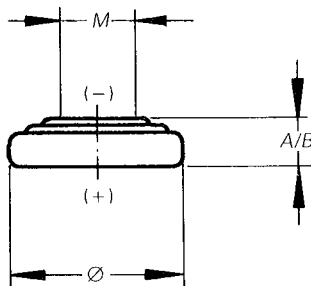


|                                                                                                                                                                             |                                         |                                                      |  |                      |                                        |                                                                                      |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------|--|----------------------|----------------------------------------|--------------------------------------------------------------------------------------|--|
|                                                                                            |                                         | <b>Pile 6LR61</b>                                    |  | <b>Battery 6LR61</b> |                                        | SPÉCIFICATION<br>DU COUPLE                                                           |  |
|                                                                                                                                                                             |                                         | <b>Tension nominale 9,0 V, Nominal voltage 9.0 V</b> |  |                      |                                        | SYSTEM<br>SPECIFICATION                                                              |  |
|                                                                                                                                                                             |                                         |                                                      |  |                      |                                        | 86 2 IEC 6LR61                                                                       |  |
| Décharges <span style="float:right">Discharges</span>                                                                                                                       |                                         |                                                      |  |                      |                                        |                                                                                      |  |
| Conditions                                                                                                                                                                  |                                         |                                                      |  |                      | Applications                           |                                                                                      |  |
| Résistance<br><i>Resistance</i><br>(Ω)                                                                                                                                      | Cycle journalier<br><i>Daily period</i> | Tension d arrêt<br><i>End point</i><br>(V)           |  |                      |                                        |                                                                                      |  |
| 620                                                                                                                                                                         | 2 h                                     | 5,4                                                  |  |                      |                                        |                                                                                      |  |
| 180                                                                                                                                                                         | 30 min                                  | 4,8                                                  |  |                      |                                        |                                                                                      |  |
| 180                                                                                                                                                                         | 1 h                                     | 5,4                                                  |  |                      | Magnétophones<br><i>Tape recorders</i> |                                                                                      |  |
| Cette pile est dimensionnellement interchangeable avec la pile 6F22<br><i>This battery is dimensionally interchangeable with the 6F22</i>                                   |                                         |                                                      |  |                      |                                        |                                                                                      |  |
| Pour plus de détails sur cette pile, voir la feuille de spécification physique 6R61<br><i>For the physical detail of this battery see physical specification sheet 6R61</i> |                                         |                                                      |  |                      |                                        |                                                                                      |  |
| Pour information générale, voir Publication 86 1 de la CEI<br><i>For general information see IEC Publication 86-1</i>                                                       |                                         |                                                      |  |                      |                                        |                                                                                      |  |
| 86-2-IEC-6LR61                                                                                                                                                              |                                         |                                                      |  |                      |                                        | Publication 86 2 de la CEI – Juillet 1982<br><i>IEC Publication 86-2 – July 1982</i> |  |

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|                                                                                   |                 |                    |                           |
|-----------------------------------------------------------------------------------|-----------------|--------------------|---------------------------|
|  | <b>Pile R62</b> | <b>Battery R62</b> | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |                 |                    | PHYSICAL<br>SPECIFICATION |
|                                                                                   |                 |                    | 86-2-IEC R62              |

Dimensions (en millimètres)



| Dimension | Max  | Min  |
|-----------|------|------|
| 4         | 1 65 |      |
| B         |      | 1,45 |
| M         |      | 2 5  |
| N         |      | 3 8  |
| Ø         | 5,80 | 5,55 |

La surface cylindrique est reliée au contact positif  
*The cylindrical surface is connected to the positive terminal*

La partie plane du contact négatif doit dépasser  
*The flat of the negative contact must project*

Le contact positif doit en principe se faire sur le côté de la pile, mais pourra aussi se faire sur le fond  
*Positive contact should be made to the side of the battery but may be made to the base*

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1  
*Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0 1*

Echelle, 4: 1  
*Scale 4 1*

Les piles correspondant à cette feuille de spécification physique sont: } A l'étude  
Batteries complying with this specification are } Under consideration

Pour information générale, voir Publication 86 1 de la CEI  
For general information see IEC Publication 86-1

86-2-IEC-R62

Publication 86-2 de la CEI – Décembre 1986  
IEC Publication 86 2 – December 1986

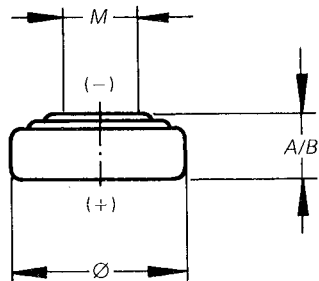
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|                                                                                                                                                                                                                                                                                                                                |                                                    |  |                                                                                    |                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--|------------------------------------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                               | <b>Pile R62<sup>1)</sup></b>                       |  | <b>Battery R62<sup>1)</sup></b>                                                    | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                | <b>Tension nominale    V, Nominal voltage    V</b> |  |                                                                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                |                                                    |  |                                                                                    | 86-2 IEC R62               |
| <div>Décharges<sup>2)</sup><div>Discharges<sup>2)</sup></div><div><div><div><div><sup>1)</sup> Spécification du couple à l'étude</div><div>System specification under consideration</div></div><div><div><sup>2)</sup> A l'étude</div><div>Under consideration</div></div></div></div></div>                                   |                                                    |  |                                                                                    |                            |
| <div><div>Pour plus de détails sur cette pile voir la feuille de spécification physique R62</div><div>For the physical detail of this battery see physical specification sheet R62</div><div>Pour information générale, voir Publication 86-1 de la CEI</div><div>For general information see IEC Publication 86-1</div></div> |                                                    |  |                                                                                    |                            |
| 86-2-IEC-R62                                                                                                                                                                                                                                                                                                                   |                                                    |  | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86-2 – December 1986 |                            |

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|                                                                                   |          |             |                           |
|-----------------------------------------------------------------------------------|----------|-------------|---------------------------|
|  | Pile R63 | Battery R63 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |          |             | PHYSICAL<br>SPECIFICATION |
|                                                                                   |          |             | 86-2-IEC R63              |

Dimensions (en millimètres)



| Dimension | Max  | Min. |
|-----------|------|------|
| A         | 2 15 |      |
| B         |      | 1,90 |
| M         |      | 2,5  |
| N         |      | 3,8  |
| Ø         | 5 80 | 5 55 |

La surface cylindrique est reliée au contact positif  
The cylindrical surface is connected to the positive terminal

La partie plane du contact négatif doit dépasser  
The flat of the negative contact must project

Le contact positif doit en principe se faire sur le côté de la pile mais pourra aussi se faire sur le fond  
Positive contact should be made to the side of the battery but may be made to the base

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0 1  
Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0 1

Echelle 4:1  
Scale 4 1

Les piles correspondant à cette feuille de spécification physique sont: } A l'étude  
Batteries complying with this specification are } Under consideration

Pour information générale, voir Publication 86 1 de la CEI  
For general information see IEC Publication 86-1

86-2-IEC-R63

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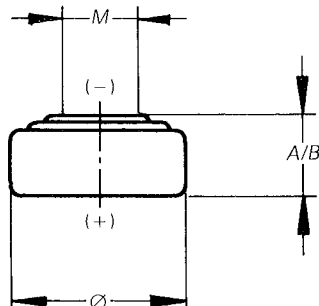


|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                              |                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Pile R63<sup>1)</sup></b>                 | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Battery R63<sup>1)</sup></b>              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Tension nominale V, Nominal voltage V</b> | 86-2-IEC R63               |
| <div> <div>Décharges<sup>2)</sup></div> <div>Discharges<sup>2)</sup></div> <div> <p><sup>1)</sup> Spécification du couple à l'étude<br/>System specification under consideration</p> <p><sup>2)</sup> A l'étude<br/>Under consideration</p> </div> </div> <p>Pour plus de détails sur cette pile voir la feuille de spécification physique R63<br/>For the physical detail of this battery see physical specification sheet R63</p> <p>Pour information générale, voir Publication 86-1 de la CEI<br/>For general information see IEC Publication 86-1</p> |                                              |                            |
| <div> <div>86-2-IEC-R63</div> <div>           Publication 86-2 de la CEI – Décembre 1986<br/>IEC Publication 86-2 – December 1986         </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                    |                                              |                            |

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|                                                                                   |          |             |                           |
|-----------------------------------------------------------------------------------|----------|-------------|---------------------------|
|  | Pile R64 | Battery R64 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |          |             | PHYSICAL<br>SPECIFICATION |
|                                                                                   |          |             | 86-2-IEC R64              |

Dimensions (en millimètres)



| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 2,70 |      |
| B         |      | 2 40 |
| M         |      | 2 5  |
| N         |      | 3 8  |
| Ø         | 5,80 | 5,55 |

La surface cylindrique est reliée au contact positif  
*The cylindrical surface is connected to the positive terminal*

La partie plane du contact négatif doit dépasser  
*The flat of the negative contact must project*

Le contact positif doit en principe se faire sur le côté de la pile mais pourra aussi se faire sur le fond  
*Positive contact should be made to the side of the battery but may be made to the base*

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0 1  
*Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0 1*

Echelle 4:1  
Scale 4 1

Les piles correspondant à cette feuille de spécification physique sont: } A l'étude  
Batteries complying with this specification are } Under consideration

Pour information générale, voir Publication 86 1 de la CEI  
For general information see IEC Publication 86-1

86-2-IEC-R64

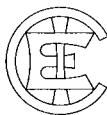
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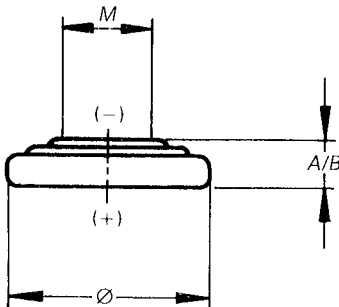
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|                                                                                   |          |             |                           |
|-----------------------------------------------------------------------------------|----------|-------------|---------------------------|
|  | Pile R65 | Battery R65 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |          |             | PHYSICAL<br>SPECIFICATION |
|                                                                                   |          |             | 86 2 IEC-R65              |

Dimensions (en millimètres)



Dimensions (in millimetres)

| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 1 65 |      |
| B         |      | 1 45 |
| M         |      | 3 0  |
| Ø         | 6,8  | 6,6  |

La partie plane du contact négatif doit dépasser  
The flat of the negative contact must project

Le contact positif doit en principe se faire sur le côté de la pile, mais pourra aussi se faire sur le fond  
Positive contact should be made to the side of the battery but may be made to the base

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0 1  
The difference between the overall height of the battery and the distance between the contact areas shall not exceed 0 1

Marquage le paragraphe 6 2 est applicable  
Marking Sub clause 6 2 is applicable

La surface cylindrique est reliée au contact positif  
The cylindrical surface is connected to the positive terminal

Echelle 4:1  
Scale 4 1

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Les piles correspondant à cette feuille de spécification physique sont: } A l'étude  
Batteries complying with this specification are } Under consideration

Pour information générale, voir Publication 86 1 de la CEI  
For general information see IEC Publication 86-1

86-2-IEC-R65

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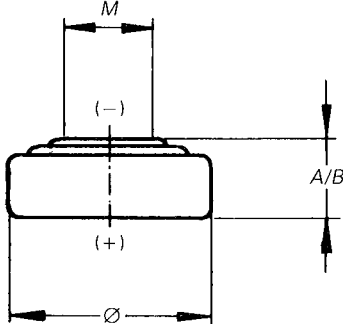


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|                                                                                   |          |             |                        |
|-----------------------------------------------------------------------------------|----------|-------------|------------------------|
|  | Pile R66 | Battery R66 | SPÉCIFICATION PHYSIQUE |
|                                                                                   |          |             | PHYSICAL SPECIFICATION |
|                                                                                   |          |             | 86-2 IEC-R66           |

Dimensions (en millimètres)



| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 2,60 |      |
| B         |      | 2 40 |
| M         |      | 3 0  |
| Ø         | 6,8  | 6 60 |

La partie plane du contact négatif doit dépasser  
*The flat of the negative contact must project*

Le contact positif doit en principe se faire sur le côté de la pile, mais pourra aussi se faire sur le fond  
*Positive contact should be made to the side of the battery but may be made to the base*

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0 1  
*Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0 1*

Marquage le paragraphe 6 2 est applicable  
*Marking Sub clause 6 2 is applicable*

La surface cylindrique est reliée au contact positif  
*The cylindrical surface is connected to the positive terminal*

Echelle 4:1  
*Scale 4 1*

Les piles correspondant à cette feuille de spécification physique sont:

Batteries complying with this specification are

A l'étude  
Under consideration

Pour information générale, voir Publication 86 1 de la CEI

For general information see IEC Publication 86-1

86-2-IEC-R66

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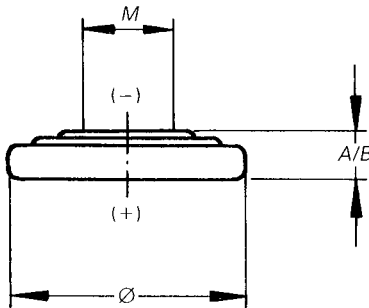
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Pile R66<sup>1)</sup></b>                 | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Battery R66<sup>1)</sup></b>              | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Tension nominale V, Nominal voltage V</b> | 86 2 IEC-R66               |
| <div> <div>Décharges<sup>2)</sup></div> <div>Discharges<sup>2)</sup></div> <div> <sup>1)</sup> Spécification du couple à l'étude<br/> <i>System specification under consideration</i> </div> <div> <sup>2)</sup> A l'étude<br/> <i>Under consideration</i> </div> <div> <p>Pour plus de détails sur cette pile voir la feuille de spécification physique R66<br/> <i>For the physical detail of this battery see physical specification sheet R66</i></p> <p>Pour information générale, voir Publication 86 1 de la CEI<br/> <i>For general information see IEC Publication 86 1</i></p> </div> </div> |                                              |                            |
| <div> <div>86-2-IEC-R66</div> <div>           Publication 86-2 de la CEI – Décembre 1986<br/> <i>IEC Publication 86 2 – December 1986</i> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                              |                            |

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Withdrawn

|                                                                                   |          |             |                           |
|-----------------------------------------------------------------------------------|----------|-------------|---------------------------|
|  | Pile R67 | Battery R67 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |          |             | PHYSICAL<br>SPECIFICATION |
|                                                                                   |          |             | 86-2-IEC-R67              |

Dimensions (en millimètres)



| Dimension | Max  | Min  |
|-----------|------|------|
| t         | 1 65 |      |
| B         |      | 1,45 |
| M         |      | 3,0  |
| Ø         | 7 9  | 7 65 |

La partie plane du contact négatif doit dépasser  
*The flat of the negative contact must project*

Le contact positif doit en principe se faire sur le côté de la pile mais pourra aussi se faire sur le fond  
*Positive contact should be made to the side of the battery but may be made to the base*

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1  
*Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0 1*

Marquage le paragraphe 6 2 est applicable  
*Marking Sub clause 6 2 is applicable*

La surface cylindrique est reliée au contact positif  
*The cylindrical surface is connected to the positive terminal*

Echelle 4:1  
*Scale 4 1*

Les piles correspondant à cette feuille de spécification physique sont:

Batteries complying with this specification are

A l'étude

Under consideration

Pour information générale, voir Publication 86 1 de la CEI

For general information see IEC Publication 86-1

86-2-IEC-R67

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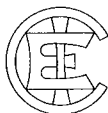
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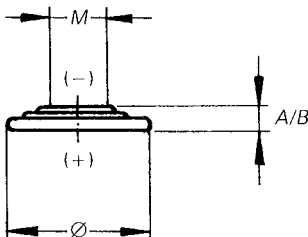




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|                                                                                   |                 |                    |                           |
|-----------------------------------------------------------------------------------|-----------------|--------------------|---------------------------|
|  | <b>Pile R68</b> | <b>Battery R68</b> | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |                 |                    | PHYSICAL<br>SPECIFICATION |
|                                                                                   |                 |                    | 86 2 IEC-R68              |

Dimensions (en millimètres)



| Dimension | Max  | Min  |
|-----------|------|------|
| <i>A</i>  | 1,65 |      |
| <i>B</i>  |      | 1,45 |
| <i>M</i>  |      | 3,8  |
| Ø         | 9,5  | 9,25 |

La partie plane du contact négatif doit dépasser  
*The flat of the negative contact must project*

Le contact positif doit en principe se faire sur le côté de la pile mais pourra aussi se faire sur le fond  
*Positive contact should be made to the side of the battery but may be made to the base*

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1  
*Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1*

Marquage le paragraphe 6 2 est applicable  
*Marking Sub clause 6 2 is applicable*

La surface cylindrique est reliée au contact positif  
*The cylindrical surface is connected to the positive terminal*

Echelle 2:1  
*Scale 2 1*

Les piles correspondant à cette feuille de spécification physique sont: }  
*Batteries complying with this specification are*

A l'étude  
*Under consideration*

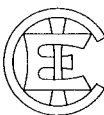
Pour information générale, voir Publication 86 1 de la CEI  
*For general information see IEC Publication 86-1*

86-2-IEC-R68

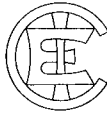
Publication 86-2 de la CEI – Décembre 1986  
*IEC Publication 86 2 – December 1986*

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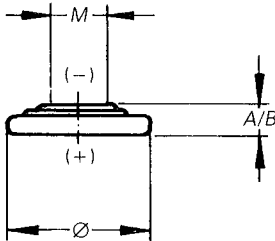
Withdrawn

|                                                                                                                                                                                                                                                                                                          |                                                    |  |                                 |                                                                                    |                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--|---------------------------------|------------------------------------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                         | <b>Pile R68<sup>1)</sup></b>                       |  | <b>Battery R68<sup>1)</sup></b> |                                                                                    | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                          | <b>Tension nominale    V, Nominal voltage    V</b> |  |                                 |                                                                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                          |                                                    |  |                                 |                                                                                    | 86 2 IEC-R68               |
| <div>Décharges<sup>2)</sup><div></div>Discharges<sup>2)</sup><div></div><div><div><div><sup>1)</sup> Spécification du couple à l'étude<br/>System specification under consideration</div><div><sup>2)</sup> A l'étude<br/>Under consideration</div></div></div></div>                                    |                                                    |  |                                 |                                                                                    |                            |
| <div>Pour plus de détails sur cette pile voir la feuille de spécification physique R68<br/>For the physical detail of this battery see physical specification sheet R68</div> <div>Pour information générale, voir Publication 86 1 de la CEI<br/>For general information see IEC Publication 86-1</div> |                                                    |  |                                 |                                                                                    |                            |
| 86-2-IEC-R68                                                                                                                                                                                                                                                                                             |                                                    |  |                                 | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986 |                            |

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|                                                                                   |                 |                    |                           |
|-----------------------------------------------------------------------------------|-----------------|--------------------|---------------------------|
|  | <b>Pile R69</b> | <b>Battery R69</b> | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |                 |                    | PHYSICAL<br>SPECIFICATION |
|                                                                                   |                 |                    | 86-2-IEC-R69              |

Dimensions (en millimètres)



| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 2 10 |      |
| B         |      | 1 85 |
| M         |      | 3 8  |
| Ø         | 9 5  | 9,25 |

La partie plane du contact négatif doit dépasser  
*The flat of the negative contact must project*

Le contact positif doit en principe se faire sur le côté de la pile mais pourra aussi se faire sur le fond  
*Positive contact should be made to the side of the battery but may be made to the base*

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1  
*The difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1*

Marquage le paragraphe 6 2 est applicable  
*Marking Sub clause 6 2 is applicable*

La surface cylindrique est reliée au contact positif  
*The cylindrical surface is connected to the positive terminal*

Echelle 2:1  
*Scale 2 1*

Les piles correspondant à cette feuille de spécification physique sont: } A l'étude  
Batteries complying with this specification are } Under consideration

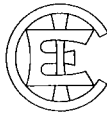
Pour information générale, voir Publication 86 1 de la CEI  
For general information see IEC Publication 86-1

86-2-IEC-R69

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|                                                                                                                                                                                                                                                                                                       |                                                    |  |                                 |                                                                                    |                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--|---------------------------------|------------------------------------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                      | <b>Pile R69<sup>1)</sup></b>                       |  | <b>Battery R69<sup>1)</sup></b> |                                                                                    | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                       |                                                    |  |                                 |                                                                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                       | <b>Tension nominale    V, Nominal voltage    V</b> |  |                                 |                                                                                    | 86-2-IEC R69               |
| Décharges <sup>2)</sup> <span style="float: right;">Discharges<sup>2)</sup></span>                                                                                                                                                                                                                    |                                                    |  |                                 |                                                                                    |                            |
| <div><div><sup>1)</sup> Spécification du couple à l'étude<br/>System specification under consideration</div><div><sup>2)</sup> A l'étude<br/>Under consideration</div></div>                                                                                                                          |                                                    |  |                                 |                                                                                    |                            |
| <p>Pour plus de détails sur cette pile, voir la feuille de spécification physique R69<br/>For the physical detail of this battery see physical specification sheet R69</p> <p>Pour information générale, voir Publication 86 1 de la C E I<br/>For general information see I E C Publication 86 1</p> |                                                    |  |                                 |                                                                                    |                            |
| 86-2-IEC-R69                                                                                                                                                                                                                                                                                          |                                                    |  |                                 | Publication 86 2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986 |                            |

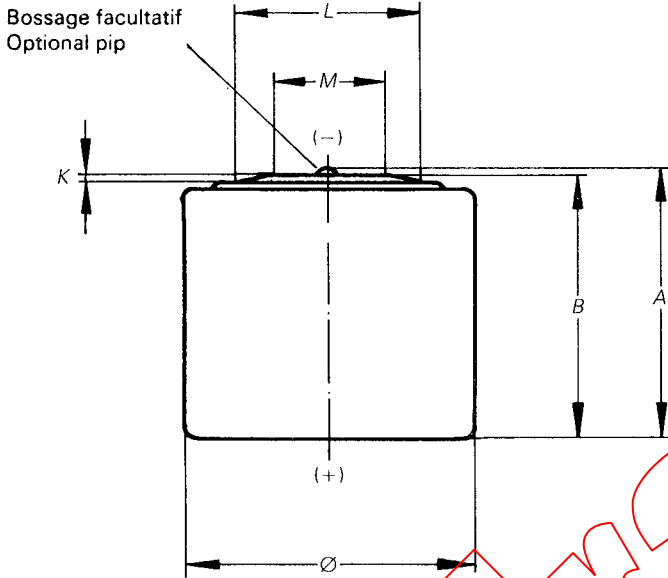
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|                                                                                   |                   |                      |                           |
|-----------------------------------------------------------------------------------|-------------------|----------------------|---------------------------|
|  | <b>Pile R0772</b> | <b>Battery R0772</b> | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |                   |                      | PHYSICAL<br>SPECIFICATION |
|                                                                                   |                   |                      | 86-2-IEC R0772            |

Dimensions (en millimètres)

Dimensions (in millimetres)

Bossage facultatif  
Optional pip



| Dimension | Max | Min |
|-----------|-----|-----|
| A         | 7,2 |     |
| B         |     | 6,7 |
| K         |     | 0,1 |
| L         | 5   |     |
| M         |     | 3,0 |
| Ø         | 7,9 | 7,7 |

La surface cylindrique est reliée au contact positif  
The cylindrical surface is connected to the positive terminal

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1  
Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1

La désignation de cette pile est provisoire en attendant un nouveau système de nomenclature  
The designation of this battery is temporary pending the derivation of a new nomenclature system

Echelle 5:1  
Scale 5:1

Les piles correspondant à cette feuille de spécification physique sont: }  
Batteries complying with this specification are

CR0772

Pour information générale, voir Publication 86 1 de la CEI  
For general information see IEC Publication 86 1

86-2-IEC-R0772

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Pile CR0772</b>                               | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Battery CR0772</b>                            | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Tension nominale 3 V, Nominal voltage 3 V</b> | 86 2 IEC CR0772            |
| <div> <div>Décharges</div> <div>Discharges</div> <div> <p>A l'étude</p> <p><i>Under consideration</i></p> </div> <div> <p>La désignation de cette pile est provisoire en attendant un nouveau système de nomenclature</p> <p><i>The designation of this battery is temporary pending the derivation of a new nomenclature system</i></p> </div> <div> <p>Pour plus de détails sur cette pile voir la feuille de spécification physique R0772</p> <p><i>For the physical detail of this battery see physical specification sheet R0772</i></p> </div> <div> <p>Pour information générale, voir Publication 86 1 de la CEI</p> <p><i>For general information see IEC Publication 86-1</i></p> </div> </div> |                                                  |                            |
| <div> <div>86-2-IEC-CR0772</div> <div>           Publication 86 2 de la CEI – Décembre 1986<br/> <i>IEC Publication 86 2 – December 1986</i> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  |                            |

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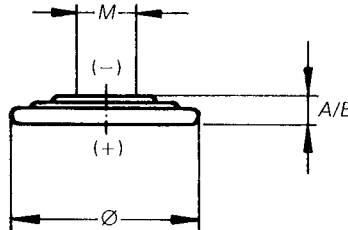
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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Pile 2CR11108</b>                             | SPÉCIFICATION<br>DU COUPLE                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Battery 2CR11108</b>                          | SYSTEM<br>SPECIFICATION                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Tension nominale 6 V, Nominal voltage 6 V</b> | 86-2-IEC-2CR11108                                                                  |
| <div> <div>Décharges</div> <div>Discharges</div> <div> <p>A l'étude</p> <p><i>Under consideration</i></p> </div> <div> <p>La désignation de cette pile est provisoire en attendant un nouveau système de nomenclature</p> <p><i>The designation of this battery is temporary pending the derivation of a new nomenclature system</i></p> </div> <div> <p>Pour plus de détails sur cette pile voir la feuille de spécification physique 4R44</p> <p><i>For the physical detail of this battery see physical specification sheet 4R44</i></p> </div> <div> <p>Pour information générale, voir Publication 86 1 de la CEI</p> <p><i>For general information see IEC Publication 86 1</i></p> </div> </div> |                                                  |                                                                                    |
| <b>86-2-IEC-2CR11108</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                  | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986 |

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|                                                                                   |            |               |                           |
|-----------------------------------------------------------------------------------|------------|---------------|---------------------------|
|  | Pile R1220 | Battery R1220 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |            |               | PHYSICAL<br>SPECIFICATION |
|                                                                                   |            |               | 86-2-IEC-R1220            |

Dimensions (en millimètres)



| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 2,0  |      |
| B         |      | 1,8  |
| M         |      | 4    |
| Ø         | 12,5 | 12,2 |

Le contact négatif doit dépasser  
The negative contact must project

La surface cylindrique est reliée au contact positif  
The cylindrical surface is connected to the positive terminal

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1  
Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1

Marquage le paragraphe 6 2 est applicable  
Marking Sub clause 6 2 is applicable

La désignation de cette pile est provisoire en attendant un nouveau système de nomenclature  
The designation of this battery is temporary pending the derivation of a new nomenclature system

Echelle 2:1  
Scale 2 1

Les piles correspondant à cette feuille de spécification physique sont: }  
Batteries complying with this specification are

CR1220

Pour information générale, voir Publication 86 1 de la CEI  
For general information see IEC Publication 86-1

86-2-IEC-R1220

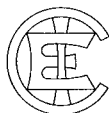
Publication 86-2 de la CEI – Décembre 1986  
IEC Publication 86 2 – December 1986

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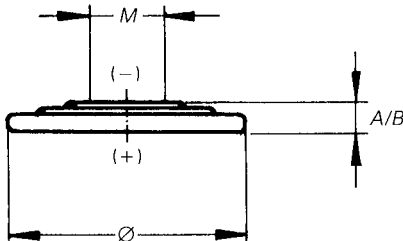
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                             | <b>Pile CR1220</b>                               | <b>Battery CR1220</b>                                                              | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                              | <b>Tension nominale 3 V, Nominal voltage 3 V</b> |                                                                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                              |                                                  |                                                                                    | 86 2 IEC CR1220            |
| Décharges                                                                                                                                                                                                                                                                                                    |                                                  |                                                                                    |                            |
| Discharges                                                                                                                                                                                                                                                                                                   |                                                  |                                                                                    |                            |
| <div>A l'étude<br/>Under consideration</div> <div>IECNORM.COM: Click to view the full PDF of IEC 60086-2:1987</div>                                                                                                                                                                                          |                                                  |                                                                                    |                            |
| <div>La désignation de cette pile est provisoire en attendant<br/>un nouveau système de nomenclature</div> <div>The designation of this battery is temporary pending the<br/>derivation of a new nomenclature system</div>                                                                                   |                                                  |                                                                                    |                            |
| <div>Pour plus de détails sur cette pile voir la feuille de spécification physique R1220<br/>For the physical detail of this battery see physical specification sheet R1220</div> <div>Pour information générale, voir Publication 86 1 de la CEI<br/>For general information see IEC Publication 86-1</div> |                                                  |                                                                                    |                            |
| 86-2-IEC-CR1220                                                                                                                                                                                                                                                                                              |                                                  | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986 |                            |

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Withdrawn

|                                                                                   |            |               |                        |
|-----------------------------------------------------------------------------------|------------|---------------|------------------------|
|  | Pile R1620 | Battery R1620 | SPÉCIFICATION PHYSIQUE |
|                                                                                   |            |               | PHYSICAL SPECIFICATION |
|                                                                                   |            |               | 86 2-IEC-R1620         |

Dimensions (en millimètres)



| Dimension | Max  | Min  |
|-----------|------|------|
| A         | 2,0  |      |
| B         |      | 1,8  |
| M         |      | 5    |
| Ø         | 16,0 | 15,7 |

Le contact négatif doit dépasser  
The negative contact must project

La surface cylindrique est reliée au contact positif  
The cylindrical surface is connected to the positive terminal

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1  
Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1

Marquage le paragraphe 6.2 est applicable  
Marking Sub clause 6.2 is applicable

La désignation de cette pile est provisoire en attendant un nouveau système de nomenclature  
The designation of this battery is temporary pending the derivation of a new nomenclature system

Echelle, 2:1  
Scale 2:1

Les piles correspondant à cette feuille de spécification physique sont: }  
Batteries complying with this specification are

CR1620

Pour information générale, voir Publication 86.1 de la CEI  
For general information see IEC Publication 86.1

86-2-IEC-R1620

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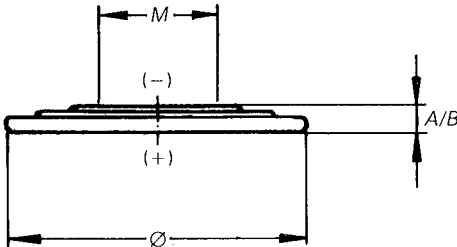
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Pile CR1620</b>                               | <b>Battery CR1620</b>                                                              | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Tension nominale 3 V, Nominal voltage 3 V</b> |                                                                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  |                                                                                    | 86-2-IEC CR1620            |
| <div>Décharges<span>Discharges</span></div> <div>A l'étude<br/><i>Under consideration</i></div> <div>La désignation de cette pile est provisoire en attendant<br/>un nouveau système de nomenclature<br/><i>The designation of this battery is temporary pending the<br/>derivation of a new nomenclature system</i></div> <div>Pour plus de détails sur cette pile, voir la feuille de spécification physique R1620<br/><i>For the physical detail of this battery see physical specification sheet R1620</i></div> <div>Pour information générale, voir Publication 86 1 de la CEI<br/><i>For general information see IEC Publication 86 1</i></div> |                                                  |                                                                                    |                            |
| 86-2 IEC-CR1620                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                  | Publication 86 2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986 |                            |

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|                                                                                   |            |               |                           |
|-----------------------------------------------------------------------------------|------------|---------------|---------------------------|
|  | Pile R2016 | Battery R2016 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |            |               | PHYSICAL<br>SPECIFICATION |
|                                                                                   |            |               | 86 2 IEC-R2016            |

Dimensions (en millimètres)



| Dimension | Max | Min  |
|-----------|-----|------|
| A         | 1 6 |      |
| B         |     | 1 4  |
| M         |     | 8    |
| Ø         | 20  | 19,7 |

Le contact négatif doit dépasser  
*The negative contact must project*

La surface cylindrique est reliée au contact positif  
*The cylindrical surface is connected to the positive terminal*

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1  
*Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1*

Marquage le paragraphe 6 2 est applicable  
*Marking Sub clause 6 2 is applicable*

La désignation de cette pile est provisoire en attendant un nouveau système de nomenclature  
*The designation of this battery is temporary pending the derivation of a new nomenclature system*

Echelle 2:1  
*Scale 2 1*

Les piles correspondant à cette feuille de spécification physique sont: }  
*Batteries complying with this specification are*

CR2016

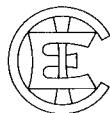
Pour information générale, voir Publication 86 1 de la C E I  
*For general information see IEC Publication 86 1*

86-2-IEC-R2016

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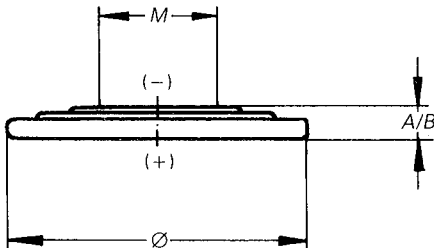
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |                                                                                    |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Pile CR2016</b>                               | <b>Battery CR2016</b>                                                              | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Tension nominale 3 V, Nominal voltage 3 V</b> |                                                                                    | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |                                                                                    | 86-2-IEC CR2016            |
| Décharges <span style="float:right">Discharges</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |                                                                                    |                            |
| <div>A l'étude<br/>Under consideration</div> <div>La désignation de cette pile est provisoire en attendant<br/>un nouveau système de nomenclature<br/><br/>The designation of this battery is temporary pending the<br/>derivation of a new nomenclature system</div> <div>Pour plus de détails sur cette pile voir la feuille de spécification physique R2016<br/>For the physical detail of this battery see physical specification sheet R2016<br/><br/>Pour information générale voir Publication 86 1 de la CEI<br/>For general information see IEC Publication 86-1</div> |                                                  |                                                                                    |                            |
| 86-2-IEC-CR2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  | Publication 86-2 de la CEI – Décembre 1986<br>IEC Publication 86 2 – December 1986 |                            |

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|                                                                                   |            |               |                           |
|-----------------------------------------------------------------------------------|------------|---------------|---------------------------|
|  | Pile R2020 | Battery R2020 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |            |               | PHYSICAL<br>SPECIFICATION |
|                                                                                   |            |               | 86 2 IEC-R2020            |

Dimensions (en millimètres)



| Dimension | Max  | Min  |
|-----------|------|------|
| 4         | 2,0  |      |
| B         |      | 1,8  |
| M         |      | 8    |
| Ø         | 20,0 | 19,7 |

Le contact négatif doit dépasser  
*The negative contact must project*

La surface cylindrique est reliée au contact positif  
*The cylindrical surface is connected to the positive terminal*

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1  
*Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1*

Marquage le paragraphe 6 2 est applicable  
*Marking Sub clause 6 2 is applicable*

La désignation de cette pile est provisoire en attendant un nouveau système de nomenclature  
*The designation of this battery is temporary pending the derivation of a new nomenclature system*

Le contact positif doit en principe se faire sur le côté de la pile, mais pourrait aussi se faire sur le fond  
*Positive contact should be made to the side of the battery but may be made to the base*

Echelle 2:1  
*Scale 2 1*

Les piles correspondant à cette feuille de spécification physique sont: } CR2020  
Batteries complying with this specification are

Pour information générale, voir Publication 86 1 de la CEI  
For general information see IEC Publication 86 1

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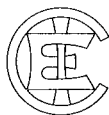
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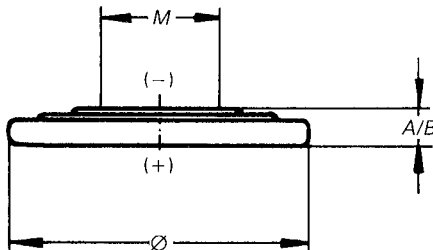
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |                                                                                           |                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Pile CR2020</b>                               | <b>Battery CR2020</b>                                                                     | SPÉCIFICATION<br>DU COUPLE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Tension nominale 3 V, Nominal voltage 3 V</b> |                                                                                           | SYSTEM<br>SPECIFICATION    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |                                                                                           | 86-2-IEC CR2020            |
| <div>Décharges<span>Discharges</span></div> <div>A l'étude<br/><i>Under consideration</i></div> <div>La désignation de cette pile est provisoire en attendant<br/>un nouveau système de nomenclature<br/><i>The designation of this battery is temporary pending the<br/>derivation of a new nomenclature system</i></div> <div>Pour plus de détails sur cette pile voir la feuille de spécification physique R2020<br/><i>For the physical detail of this battery see physical specification sheet R2020</i></div> <div>Pour information générale, voir Publication 86 1 de la CEI<br/><i>For general information see IEC Publication 86-1</i></div> |                                                  |                                                                                           |                            |
| 86-2-IEC-CR2020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  | Publication 86-2 de la CEI – Décembre 1986<br><i>IEC Publication 86-2 – December 1986</i> |                            |

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|                                                                                   |            |               |                           |
|-----------------------------------------------------------------------------------|------------|---------------|---------------------------|
|  | Pile R2025 | Battery R2025 | SPÉCIFICATION<br>PHYSIQUE |
|                                                                                   |            |               | PHYSICAL<br>SPECIFICATION |
|                                                                                   |            |               | 86-2-IEC R2025            |

Dimensions (en millimètres)



| Dimension | Max | Min  |
|-----------|-----|------|
| A         | 2,5 |      |
| B         |     | 2,2  |
| M         |     | 8    |
| Ø         | 20  | 19,7 |

Le contact négatif doit dépasser  
*The negative contact must project*

La surface cylindrique est reliée au contact positif  
*The cylindrical surface is connected to the positive terminal*

La différence entre la hauteur hors tout de la pile et la distance entre les surfaces de contact ne devra pas dépasser 0,1  
*Any difference between the overall height of the battery and the distance between the contact areas shall not exceed 0,1*

Marquage le paragraphe 6.2 est applicable  
*Marking Sub clause 6.2 is applicable*

La désignation de cette pile est provisoire en attendant un nouveau système de nomenclature  
*The designation of this battery is temporary pending the derivation of a new nomenclature system*

Echelle 2:1  
*Scale 2:1*

Les piles correspondant à cette feuille de spécification physique sont: }  
Batteries complying with this specification are

CR2025

Pour information générale, voir Publication 86.1 de la CEI  
For general information see IEC Publication 86.1

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