

TECHNICAL REPORT

AMENDMENT 2

**Performance of high-voltage direct current (HVDC) systems with line-commutated converters –
Part 2: Faults and switching**

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FOREWORD

This amendment has been prepared by subcommittee 22F: Power electronics for electrical transmission and distribution systems, of IEC technical committee 22: Power electronic systems and equipment.

The text of this amendment is based on the following documents:

DTR	Report on voting
22F/561/DTR	22F/575/RVDTR

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

4.3 Load rejection

Replace, in the existing text, the verbal form "shall" (4 occurrences) by "should".

Add, at the end of the existing fourth paragraph, beginning with "For this contingency", the following new sentence:

It is also helpful to adopt fast and reliable telecommunication system for opening of the remote end circuit breakers.

8.3 Protection zones

Add, at the end of the existing third paragraph, the following new sentence:

The adjacent zones should be overlapped in actual system in order to eliminate blind spots of protective scheme.

Figure 10 – Example of d.c. protection zones for series-connected converter units

Replace the existing Figure 10 by the following new figure

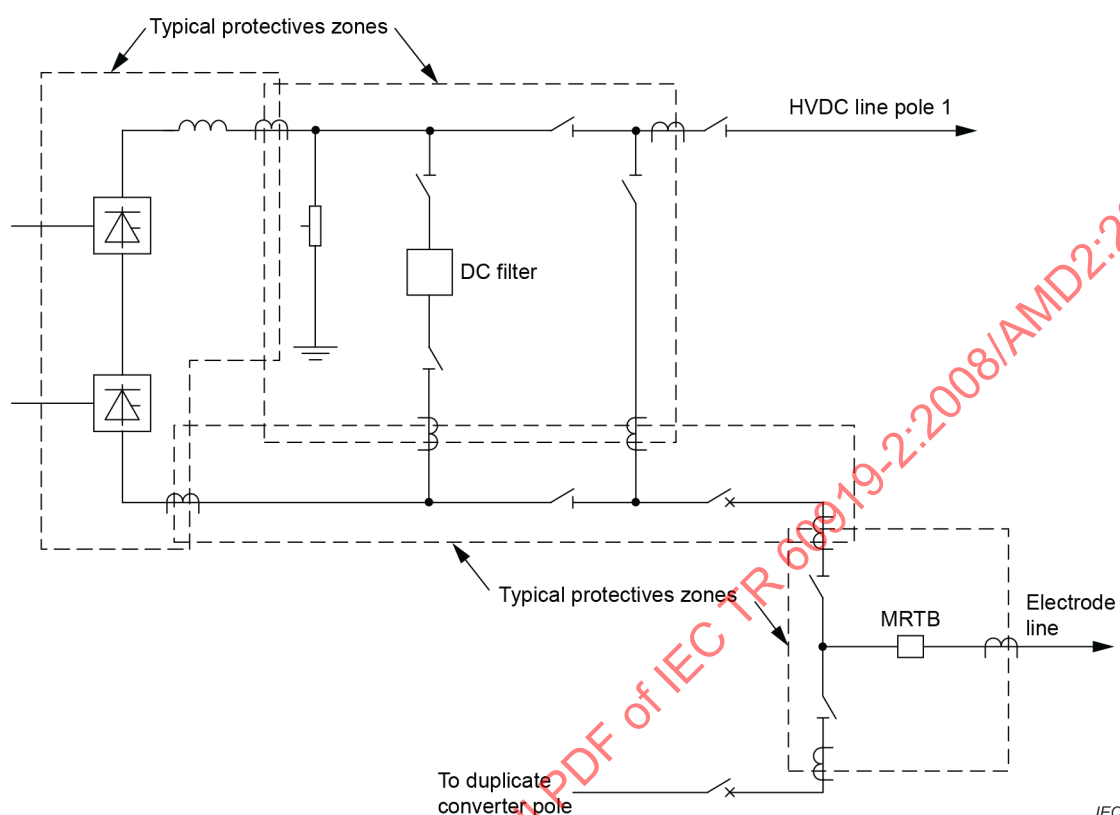


Figure 10 – Example of d.c. protection zones for series-connected converter units

Figure 11 – Example of d.c. protection zones for parallel-connected converter pole

Replace the existing Figure 11 by the following new figure:

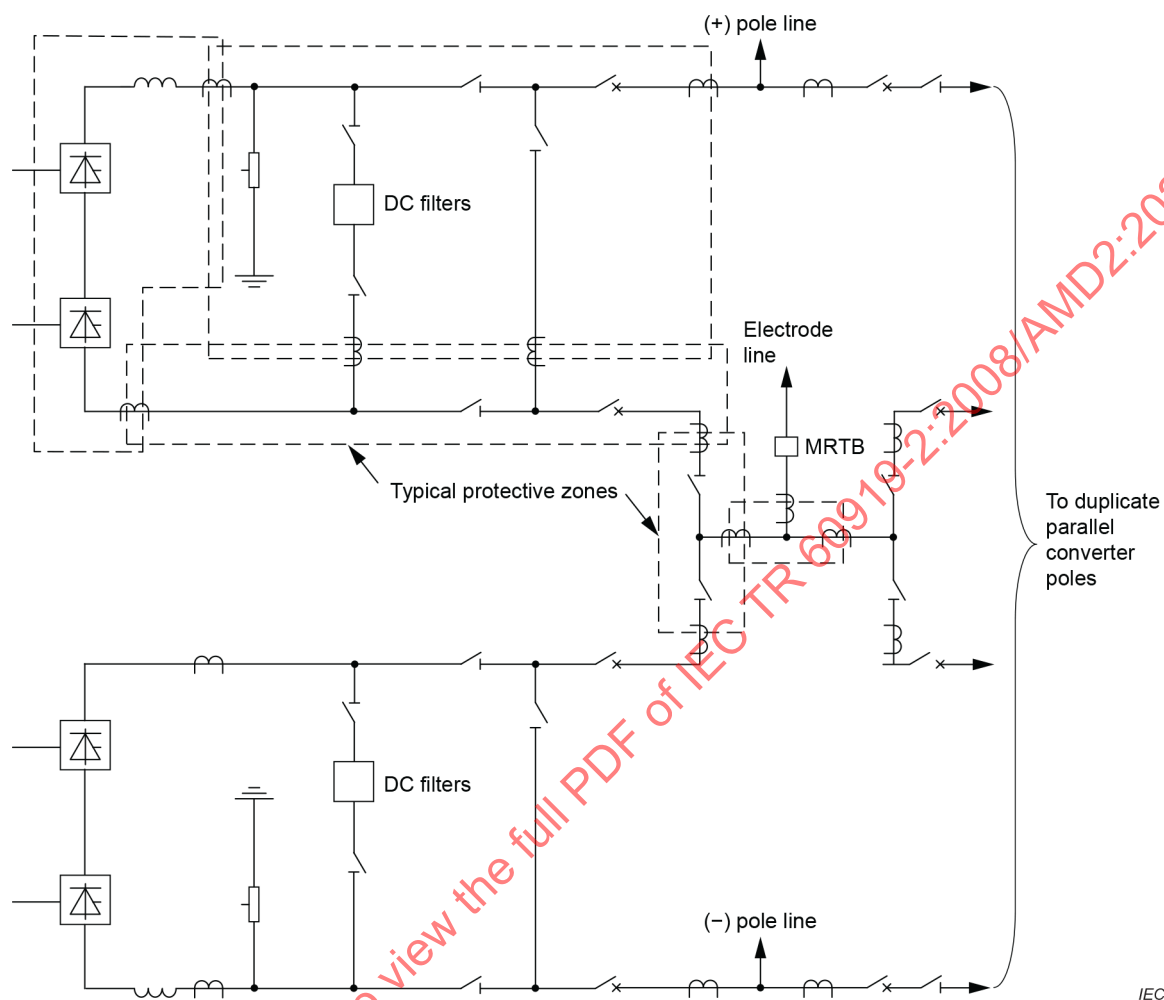


Figure 11 – Example of d.c. protection zones for parallel-connected converter pole