

SAE reviews each technical report at least every five years at which time it may be reaffirmed, revised, or cancelled. SAE invites your written comments and suggestions.

FIGURE 1

REV.
A

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TABLE 1

ELECTRICAL AND MECHANICAL CHARACTERISTICS										
DASH NUMBER	NOMINAL CAPACITY (AMPERES)	VOLTAGE DROP MAX (V)	WEIGHT MAX (LB)	OPERATING FORCE		ENDURANCE CYCLES				MECH NO LOAD
				MAX (LB)		RESISTIVE		INDUCTIVE		
				PULLOUT	RESET	AC	DC	AC	DC	
5	5	0.25	0.1	8	12	5,000 ^{1/}	5,000 ^{2/}	2,500 ^{1/} .6 TO .7 LAGGING POWER FACTOR	2,500 ^{2/}	5,000
7-1/2	7.5 (7-1/2)									
10	10									
15	15									
20	20									
25	25									
30	30									
35	35									
50	50									

1/ 400 CYCLES 115/200 VOLT SYSTEM, TESTED AT 120 ± 5 VOLTS 380-420 HZ.2/ 28 VOLTS DC, TESTED AT 30 ± 3 VOLTS.

TABLE 2

DETAIL CALIBRATION REQUIREMENTS - TRIP IN SECONDS												
NOMINAL CAPACITY (AMPERES)	+25 °C					-40 °C			+71 °C			
	PERCENT RATED CURRENT					PERCENT RATED CURRENT			PERCENT RATED CURRENT			
	115	138	200	400	600	148	156	178	60	70	108	114
5	MUST HOLD - 1 HOUR MIN.	MUST TRIP - 1 HOUR MAX.	15 TO 55	2 TO 7	3 TO 5.5	MUST HOLD - 1 HOUR MIN.	MUST HOLD - 1 HOUR MIN.	MUST TRIP - 1 HOUR MAX.	MUST HOLD - 1 HOUR MIN.	MUST TRIP - 1 HOUR MAX.	MUST TRIP - 1 HOUR MAX.	MUST TRIP - 1 HOUR MAX.
7.5 (7½)												
10												
15												
20												
25												
30												
35												
50												

(a) TEMPERATURE TOLERANCE ± 2 °C.

(*) NOT APPLICABLE.

TABLE 3

INTERRUPTING CURRENT (AMPERES) REQUIREMENTS						
NOMINAL CAPACITY (AMPERES)	TEST DESIGNATION PER MIL-C-5809					
	A	B	C	D	E	F
5	3,500	3,500	6,000	6,000	(a) 2,000 (b) 1,000 (c) 750	(a) 3,000 (b) 1,500 (c) 1,000
7.5 (7½)						
10						
15						
20						
25						
30						
35						
50						

TABLE 4

ENVIRONMENTAL PERFORMANCE	
MAXIMUM OPERATING ALTITUDE - FT	65,000
OPERATING AMBIENT TEMPERATURE RANGE	-40 TO +71 °C
VIBRATION - IN ACCORDANCE WITH MIL-C-5809	SINE - REQUIRED RANDOM - (OPTIONAL)
SHOCK	30 G, MIL-STD-202, METHOD 213, TEST CONDITION J
ACCELERATION	10 G

REQUIREMENTS:

1. THE PART NUMBERS FOR CIRCUIT BREAKERS IN ACCORDANCE WITH THIS SPECIFICATION SHALL CONFORM TO THE EXAMPLE BELOW.

MS25244 - P D5

AMPERAGE RATING
RANDOM VIBRATION LEVEL (OPTION)
MOUNTING AND/OR TERMINAL CONFIGURATION
BASIC PART NUMBER

2. CIRCUIT BREAKERS ARE NONRECYCLING AS DEFINED IN MIL-C-5809.
3. MS25244-1 AND MS25244-3 ARE CANCELLED. NO SUPERSEDING STANDARD.
4. MS25244-PT SUPERSEDES MS25017 AND MS25005. PART NUMBERS OF MS25244-PT ARE INACTIVE FOR NEW DESIGN.
5. MS25244 CIRCUIT BREAKERS MAY BE SUPPLIED WITH A RECTANGULAR KEYTAB OF .093 ± .005" WIDTH AND .031 ± .005 HEIGHT.

NOTES:

1. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. TOLERANCE: DECIMALS $\pm .031$ " ANGLES $\pm 2^\circ$.
2. PHANTOM LINES INDICATE THAT CONTOUR IS OPTIONAL PROVIDED MAXIMUM DIMENSIONS ARE NOT EXCEEDED.
3. CERTAIN PROVISIONS OF THIS STANDARD ARE THE SUBJECT OF INTERNATIONAL STANDARDIZATION AGREEMENT ASCC 12/3 WHEN REVISION OR CANCELLATION OF THIS STANDARD IS PROPOSED WHICH WILL EFFECT OR VIOLATE THE INTERNATIONAL AGREEMENT CONCERNED. THE PREPARING ACTIVITY WILL TAKE APPROPRIATE RECONCILIATION ACTION THROUGH INTERNATIONAL STANDARDIZATION CHANNELS, INCLUDING DEPARTMENTAL STANDARDIZATION OFFICES, IF REQUIRED.
4. FOR DESIGN FEATURE PURPOSES THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN. REFERENCE DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
5. VOLTAGE RATING 28 VOLTS DC NOMINAL OR 115 VOLTS 400 HZ NOMINAL.
6. THE CHANGE BAR (I) LOCATED IN THE LEFT MARGIN IS FOR THE CONVENIENCE OF THE USER IN LOCATING AREAS WHERE TECHNICAL REVISIONS, NOT EDITORIAL CHANGES, HAVE BEEN MADE TO THE PREVIOUS ISSUE OF THIS DOCUMENT. AN (R) SYMBOL TO THE LEFT OF THE DOCUMENT TITLE INDICATES A COMPLETE REVISION OF THE DOCUMENT.

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