

FED SMP CLASS  
5925

USE SYMBOLS:

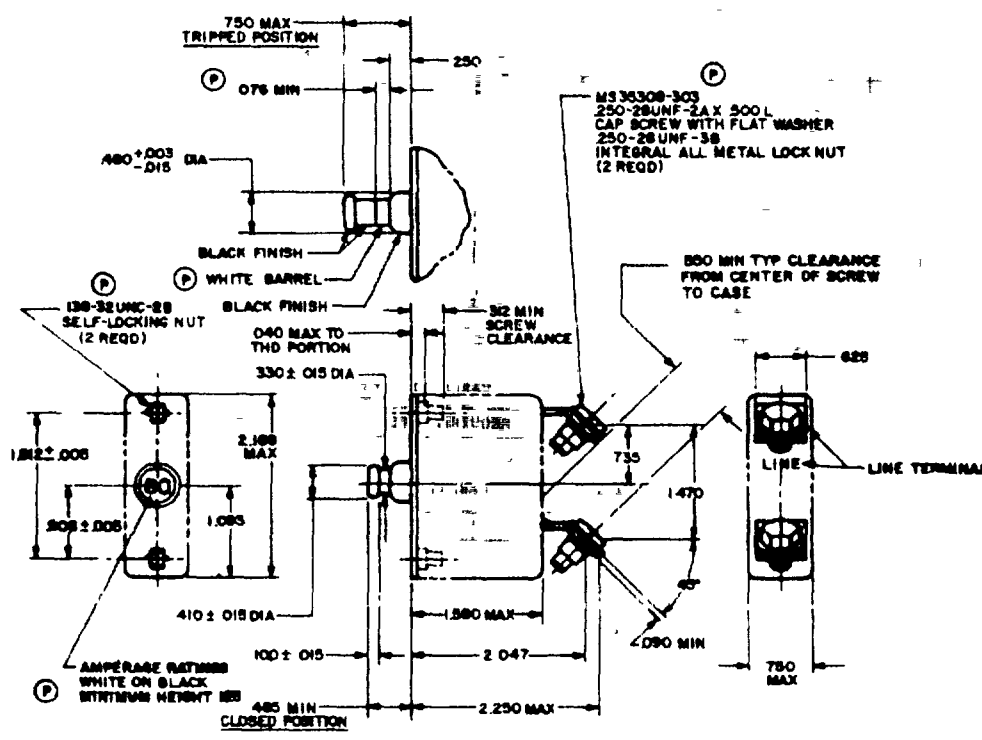
REVISION SYMBOLS:

USAF - 11  
DESC - 12

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JE NO. 117 HAIN

P/A NAVY - AS Other Cust USAF - 55 ARMY - ER	INTER NATIONAL INTEREST	MIL I Circuit Breaker - Aircraft, Trip-Free, Push-Pull, 50 Thru 100 Amp, Type I	MILITARY STANDARD MS 25361
PROCUREMENT SPECIFICATION MIL C 5809		SUPERSEDES MS00253611 (USAF)	SHEET 1 OF 3

DD FORM 672-1 (Coordinate)

APPROVED 14 NOV 58 REVISED 2 DEC 77 1 SEPT 78 7 DEC 83 30 JAN 84 30 NOV 1987

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TABLE I (P)

ELECTRICAL AND MECHANICAL CHARACTERISTICS

DASH NUMBER	NOMINAL CAPACITY AMPERES (A)	VOLTAGE DROP MAX (V)	WEIGHT MAX (LBS)	OPERATING FORCE MAX (LBS)		ENDURANCE CYCLES				MECH NO LOAD
				PULLOUT	RESET	RESISTIVE		INDUCTIVE		
						AC	DC	AC	DC	
50	50	0.3	0.25	12	16	1/ 5,000	2/ 5,000	1/ 5,000 6 TO 7 LAGGING POWER FACTOR	2/ 2,500	3,000
60	60									
70	70									
75	75									
80	80									
90	90									
100	100									

1/ 400 CYCLE 115/200 VOLT SYSTEM, TESTED AT 120 ± 5 VOLTS 300 420 HZ  
2/ 28 VOLTS DC SYSTEM TESTED AT 30 ± 2 VOLTS

TABLE II (P)

DETAIL CALIBRATION REQUIREMENTS - TRIP TIME IN SECONDS

NOMINAL CAPACITY AMPERES (A)	25°C					-40°C		+71°C	
	PERCENT RATED CURRENT					PERCENT RATED CURRENT		PERCENT RATED CURRENT	
	105	138	200	400	600	125	165	70	125
50	MUST HOLD - 1 HOUR MIN	MUST TRIP - 1 HOUR MAX	15	2	1	MUST HOLD - 1 HOUR MIN	MUST TRIP - 1 HOUR MAX	MUST HOLD - 1 HOUR MIN	MUST TRIP - 1 HOUR MAX
60			TO	TO	TO				
70			65	10	4				
75									
80									
90									
100									

AMBIENT TEMPERATURE TOLERANCE ±2°C

TABLE III (P)

INTERRUPTING CURRENT (AMPERES) REQUIREMENTS

NOMINAL CAPACITY AMPERES (A)	TEST DESIGNATION PER MIL-C-5809					
	A	B	C	D	E	F
50	3 000	5 500	8 000	10 000	a 12 000 b 11 000 c 1 750	a 13 000 b 11 500 c 11 000
60						
70						
75						
80						
90						
100						

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P.A. NAVY - AS INTER-NATIONAL INTEREST  
Other Code  
USAF - 85 (SEE #)  
ARMY - ER - NOTE (6)

TITLE  
Circuit Breaker - Aircraft, Trip-Free, Push-Pull, 50 Thru 100 Amp, Type I

MILITARY STANDARD  
MS25361

PRECEDENCE SPECIFICATION  
MIL-C-5809

SUPERSEDES  
MS0025361 (USAF)

SHEET 2 OF 3

FOR CHANGES SEE SHEET 1

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TABLE IV (P)

ENVIRONMENTAL PERFORMANCE	
MAX OPERATING ALTITUDE-FT	70,000
OPERATING AMBIENT TEMP RANGE	-40°C TO +71°C
VIBRATION - IN ACCORDANCE WITH MIL-C-5809	SINE - REQUIRED HIGH LEVEL SINE (OPTION) RANDOM (OPTION)
SHOCK	30G MIL-STD-202 METHOD 213-TEST METHOD J
ACCELERATION	10C

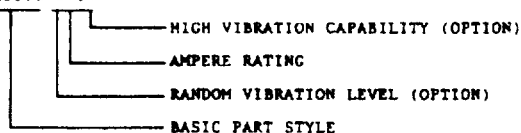
## NOTES

- 1 DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCE DECIMALS  $\pm$  .031; ANGLES  $\pm$  2°
- 2 REFERENCE DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BIDS, OR REQUEST FOR PROPOSAL EXCEPT THE REFERENCED ADOPTED INDUSTRY DOCUMENTS SHALL GIVE THE DATE OF THE ISSUE ADOPTED
- 3 FOR DESIGN FEATURE PURPOSES THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN
- 4 CERTAIN PROVISIONS OF THE 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
- 5 VOLTAGE RATING 28VDC NOMINAL OR 115V 400 HZ NOMINAL

## REQUIREMENTS

- 1 PHANTOM LINES INDICATE CONTOUR IS OPTIONAL PROVIDED MAXIMUM DIMENSIONS ARE NOT EXCEEDED
- 2 TERMINAL SCREW TIGHTENING TORQUE  $\leq$  18-IN MAX
- 3 CIRCUIT BREAKERS ARE DESIGNED TO BE NON-RECYCLING PER MIL-C-5809
- 4 THE PART NUMBER FOR CIRCUIT BREAKERS IN ACCORDANCE WITH THIS SPECIFICATION SHALL CONFORM TO THE EXAMPLE BELOW

MS25361-D75V



WHEN A DESIGNATOR IS NOT APPLICABLE IT SHALL BE OMITTED FROM THE PART NUMBER

UNLESS OTHERWISE

SPECIFIED OTHERWISE

USAF - 11  
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P.A. NAVY - AS Other Code	INTER- NATIONAL INTEREST	TITLE	MILITARY STANDARD
USAF - 65 ARMY ER	(SEE NOTE 4)	Circuit Breaker - Aircraft, Trip-Free, Push-Pull, 50 Thru 100 Amp, Type I	<b>MS25361</b>
PROCUREMENT SPECIFICATION	SUPPLEMENT		SHEET 1 OF 1
MIL-C-5809	MS0015361/15A11		

DD FORM 672-1 (1-67)

REPLACES DD FORM 672-1, 1-67

PLATE NO. 5825

FOR CHANGES SEE SHEET 1

APPROVED 14 NOV 58