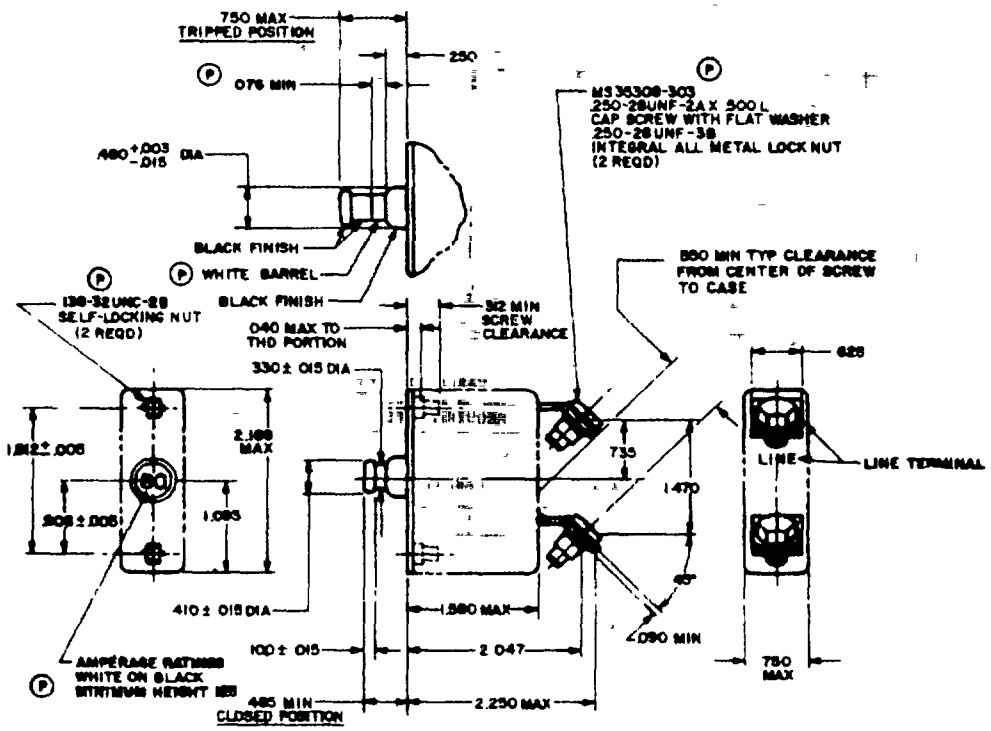
FSC 5925



○ DENOTES BASIC

PSA NAVY - AS Other Cust USAF - 85 ARMY - ER	INTERNATIONAL INTEREST	Circuit Breaker - Aircraft, Trip-Free, Push-Pull, 50 Thru 100 Amp, Type I	MILITARY STANDARD MS 25361
PROCUREMENT SPECIFICATION MIL C 5809	SUPERSEDES MS00025361C(USAF)		SHEET 1 OF 3

DD FORM 672-1 (Coordinated)

APPROVED 14 NOV 58 — REVISED (E) 2 DEC 77 (L) 1 SEPT 78 (M) 7 DEC 83 (R) 30 JAN 84 (P) 30 NOV 1987

REVISION SYMBOLS: USAF - 11, DESC - ES

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APSC N/A
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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
						RESISTIVE		INDUCTIVE		
				PULLOUT	RESET	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	5,000
60	60									
70	70									
75	75									
80	80									
90	90									
100	100									

1/ 400 CYCLE 115/200 VOLT SYSTEM, TESTED AT 120 ±5 VOLTS 380 420 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 PERCENT RATED CURRENT					-40°C PERCENT RATED CURRENT		+71°C PERCENT RATED CURRENT	
	105	138	200	400	600	125	165	70	125
50	MUST HOLD - 1 HOUR MIN	MUST TRIP - 1 HOUR MAX	15 TO 65	2 TO 10	1 TO 4	MUST HOLD - 1 HOUR MIN	MUST TRIP - 1 HOUR MAX	MUST HOLD - 1 HOUR MIN	MUST TRIP - 1 HOUR MAX
60									
70									
75									
80									
90									
100									

AMBIENT TEMPERATURE TOLERANCE ±2°C

TABLE III (P)

NOMINAL CAPACITY AMPERES (A)	INTERRUPTING CURRENT (AMPERES) REQUIREMENTS TEST DESIGNATION PER MIL-C-5809					
	A	B	C	D	E	F
50	3,500	5,500	8,000	8,500	a12,000 b11,500 c11,750	a13,000 b11,500 c11,000
60						
70						
75						
80						
90						
100						

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P.A.
NAVY — AS
Other Cust
USAF - 85
ARMY - ER
INTERNATIONAL INTEREST (SEE NOTE 4)

PROCUREMENT SPECIFICATION
Mil-C 5809

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

SUPERSEDES
MS00253b(1), (SAE)

MILITARY STANDARD
MS25361

SHEET 2 OF 3

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5925

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	10G

NOTES

1 DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCE DECIMALS ± .031; ANGLES ±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

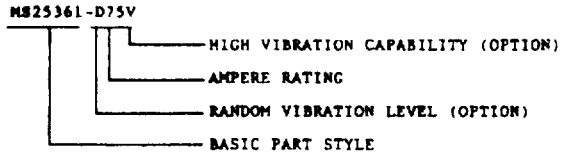
REQUIREMENTS

1 PHANTOM LINES INDICATE CONTOUR IS OPTIONAL PROVIDED MAXIMUM DIMENSIONS ARE NOT EXCEEDED

2 TERMINAL SCREW TIGHTENING TORQUE 12 LB-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



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

USER SYMBOLS
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(P) FOR CHANGES SEE SHEET 1
REVISED
APPROVED 16 NOV 78

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P.A. NAVY — AS Other Cust: USAF - 85 ARMY ER	INTER-NATIONAL INTEREST (SEE NOTE4)	TITLE: Circuit Breaker - Aircraft, Trip-Free, Push-Pull, 50 Thru 100 Amp, Type I	MILITARY STANDARD MS25361
PROCUREMENT SPECIFICATION: MIL-C-5809		SUPERSEDES: MS90[illegible]	SHEET 1 OF 1

DD FORM 1 JAN 72 672-1 (Continued)

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PLATE NO. 22000