

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION: MIL-C-3809

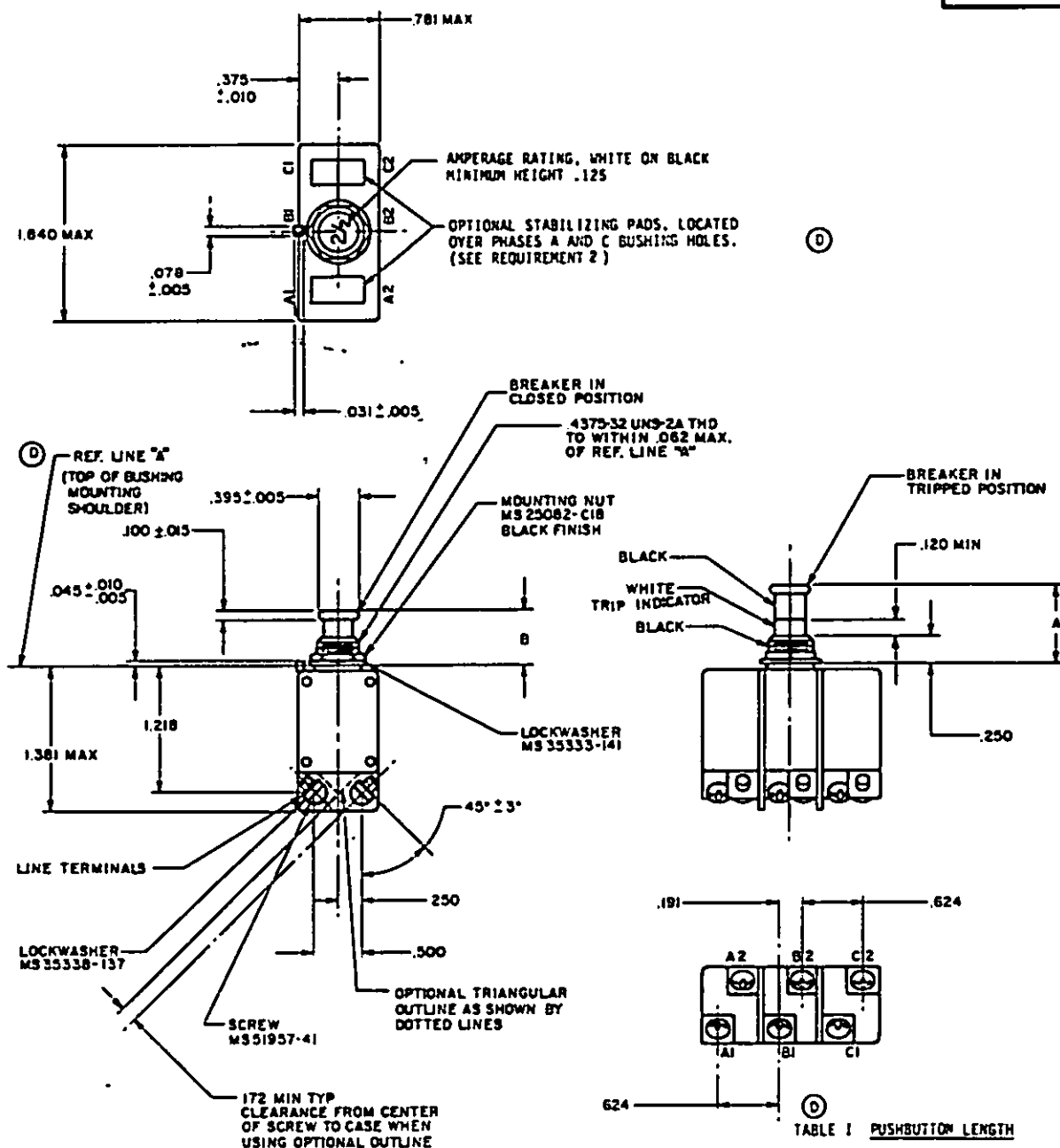


FIGURE 1. TRIP-FREE CIRCUIT BREAKER

① DENOTES CHANGES

PREPARING ACTIVITY: NAVY - AS

CUSTODIANS: ARMY - ER NAVY -

AIR FORCE - 85 DLA -

REVIEW:

USER:

PROJECT NUMBER: 5925-0202

DISTRIBUTION STATEMENT

A. Approved for public release; distribution is unlimited.

MILITARY SPECIFICATION SHEET

TITLE: CIRCUIT BREAKER - AIRCRAFT, TRIP-FREE, PUSH-PULL, 3 PHASE, 1 THRU 20 AMP, TYPE 1

SPECIFICATION SHEET NUMBER

MS14154D 9 JAN 90

SUPERSEDING

MS14154C 30 NOV.1987

AMSC - N/A

FSC: 5925

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THIS SPECIFICATION IS APPROVED FOR USE BY ALL DEPARTMENTS AND AGENCIES OF THE DEPARTMENT OF DEFENSE.

① TABLE II ELECTRICAL AND MECHANICAL CHARACTERISTICS

DASH NUMBER	NOMINAL AMPERAGE RATING (A)	VOLT DROP MAX. (V)	WEIGHT MAX. (LBS)	OPERATING FORCE MAX. (LBS)		ENDURANCE CYCLES				MECH. NO. LOAD
				PULLOUT	RESET	RESISTIVE		INDUCTIVE		
1	1	1.10	.15	12	12	5000 1/	none	2500 1/	none	5000
2	2	.75								
2-1/2	2-1/2	.70								
3	3	.55								
4	4	.45								
5	5	.35								
7-1/2	7-1/2	.30								
10	10	.28								
15	15	.28								
20	20	.25								

① 1/400 HZ 115/200 VOLT SYSTEM, TESTED AT 120 ±5 VOLTS 380-400 HZ

① TABLE III DETAIL CALIBRATION REQUIREMENTS

NOMINAL AMPERAGE RATING (A)	+25°C					-55°C					+71°C				
	% RATED CURRENT					% RATED CURRENT					% RATED CURRENT				
	110	145	200	500	1000	110	165	200	500	1000	100	145	200	500	1000
-1	MUST HOLD - 1 HOUR MIN.	MUST TRIP - 1 HOUR MAX.				MUST HOLD - 1 HOUR MIN.	MUST TRIP - 1 HOUR MAX.				MUST HOLD - 1 HOUR MIN.	MUST TRIP - 1 HOUR MAX.			
-2															
-2 1/2															
-3			4	0.4	0.10			6	0.55	0.15			3	0.33	0.08
-4			10	10	10			10	10	10			10	10	10
-5			20	2.0	0.53			40	3.5	0.80			20	1.7	.040
-7 1/2															
-10															
-15			2/	2/											
-20	3/	3/	4/	4/	4/	3/	3/	4/	4/	4/	3/	3/	4/	4/	4/

2/ ONE PHASE AT SPECIFIED LOAD AND OTHER PHASES CARRYING RATED LOAD.

3/ BALANCED THREE PHASE LOAD.

4/ SINGLE PHASE LOAD ONLY. TRIP TIME IN SECONDS.

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TABLE IV INTERRUPTING CAPACITY REQUIREMENTS - AMPERES

NOMINAL AMPERAGE RATING (A)	TEST DESIGNATION PER MIL-C-5809											
	A		B		C	D	E	F	G		H	
	10	30	10	30					10	30	10	30
-1	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	2000	1200	2000	1200
-2												
-2 1/2												
-3												
-4												
-5												
-7 1/2												
-10												
-15												
-20												

* NOT APPLICABLE

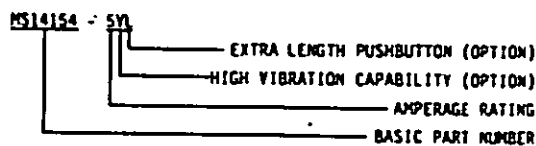
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TABLE V ENVIRONMENTAL PERFORMANCE

MAXIMUM OPERATING ALTITUDE - FT.	70,000
OPERATING AMBIENT TEMPERATURE RANGE	-55°C to +71° C
VIBRATION - IN ACCORDANCE WITH MIL-C-5809	SINE - REQUIRED HIGH LEVEL SINE (OPTIONAL)
SHOCK	50G, MIL-STD-202, METHOD 213 TEST CONDITION 6

REQUIREMENTS:

1. THE PART NUMBERS 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.

D

2. OPTIONAL STABILIZING PADS: IF INCLUDED, VIBRATION STABILIZING PADS SHALL BE OUR SILICON RUBBER 9235, LOCATED OVER THE PHASE A AND C PLUGGED BUSHING HOLES, AND ATTACHED WITH A SILICON ADHESIVE.

NOTES:

1. DIMENSIONS ARE IN INCHES.
2. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS : .031.
3. VOLTAGE RATING 115V L-N 400 HZ NOMINAL OR 200V L-L 400 HZ NOMINAL.
4. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THE STANDARD SHALL TAKE PRECEDENCE.

PREPARING ACTIVITY: NAVY - AS

CUSTODIANS: ARMY - ER

NAVY -

AIR FORCE - BS

DLA -

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