

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-5809

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

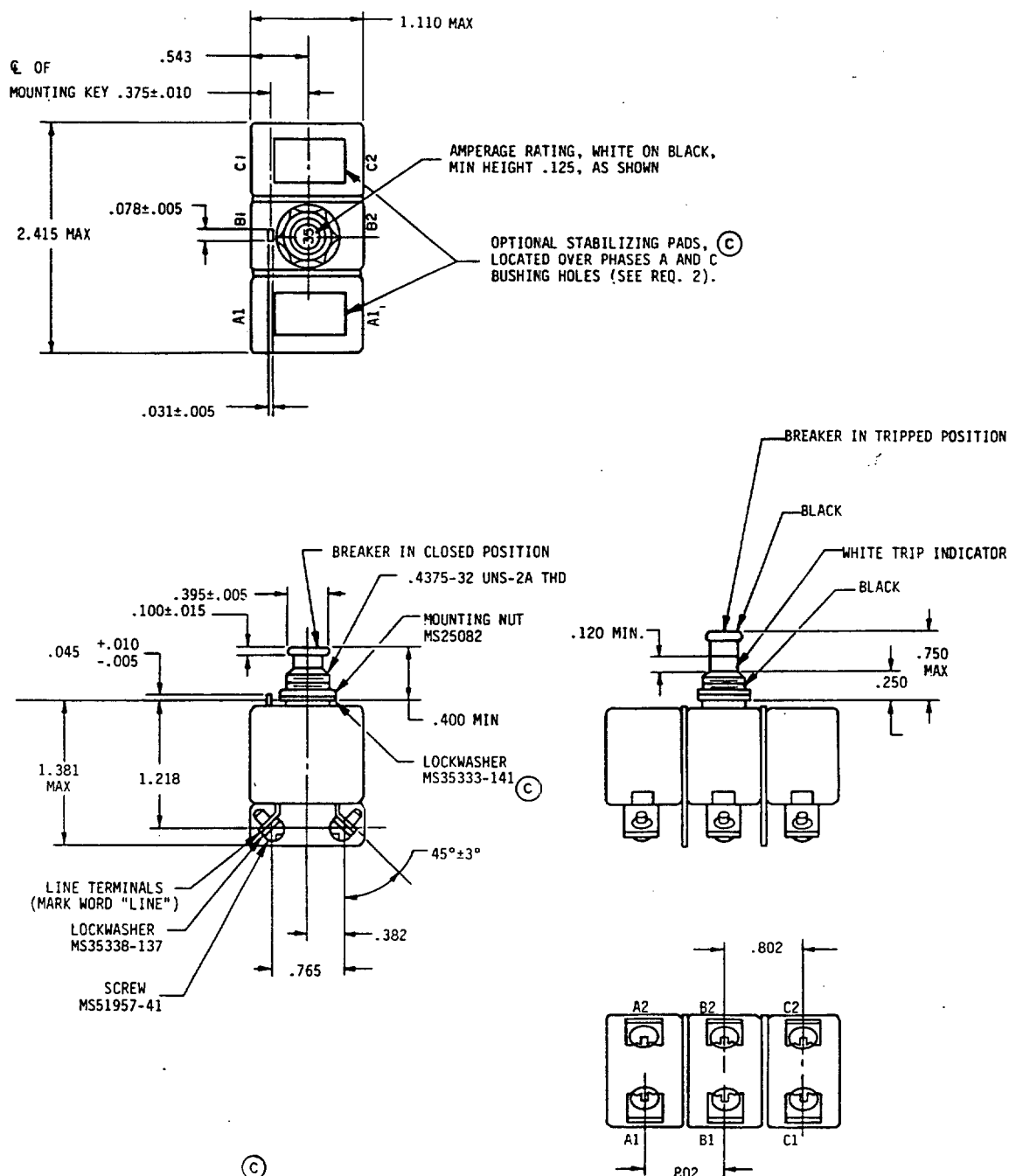


FIGURE 1. TRIP-FREE CIRCUIT BREAKER

(C) DENOTES CHANGES

PREPARING ACTIVITY:NAVY-AS
CUSTODIANS: ARMY-ER NAVY-
AIR FORCE-65 DIA-
REVIEW:
USER:
PROJECT NUMBER: 5925-0201

MILITARY SPECIFICATION SHEET

TITLE CIRCUIT BREAKER-AIRCRAFT, TRIP-FREE,
PUSH-PULL 3 PHASE, 1 THRU 35 AMP, TYPE 1

SPECIFICATION SHEET NUMBER

MSI4153C 9 JAN 90

SUPERSEDING
MS14153E 30 NOV. 67

AMSC-	N/A	FSC 5925
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DISTRIBUTION STATEMENT

A. Approved for public release; distribution is unlimited.

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TABLE I. ELECTRICAL AND MECHANICAL CHARACTERISTICS.

DASH NO.	NOMINAL AMPERE RATING	VOLT DROP MAX.	WEIGHT MAX. LBS.	OPERATING FORCE MAX. LBS.		ENDURANCE CYCLES				MECH. NO LOAD
				PULLOUT	RESET	RESISTIVE		INDUCTIVE		
						AC	DC	AC	DC	
1	1	1.10	↑	↑	↑	↑	↑	↑	↑	
15	15	.250	.25	12	12	5000 1/	NONE	2500 1/	NONE	5000
20	20									
25	25									
30	30									
35	35	↓	↓	↓	↓	↓	↓	↓	↓	

1/ 400 Hz 115/200 VOLT SYSTEM. TESTED AT 120±5 VOLTS 380-400Hz.

(C)

TABLE II. DETAIL CALIBRATION REQUIREMENTS.

NOMINAL AMPERE RATING	+25° C					-55° C					+71° C				
	110	145	200	500	1000	110	165	200	500	1000	100	145	200	500	1000
1															
15															
20															
25															
30															
35															

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.

(C)

TABLE III. INTERRUPTING CAPACITY REQUIREMENTS-AMPERES.

NOMINAL AMPERE RATING	TEST DESIGNATION PER MIL-C-5809											
	A		B		C	D	E	F	G		H	
	10	30	10	30					10	30	10	30
1												
15												
20												
25	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	2000	1200	2000	1200
30												
35												

(*) NOT APPLICABLE

TABLE IV. 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
SHOCK	50 G, MIL-STD-202, METHOD 213, TEST G

(C)

REQUIREMENTS:

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

MS14153-25

_____ AMPERAGE RATING
 _____ BASIC PART NUMBER

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

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

NOTES:

1. SURFACE TEXTURE SHALL BE IN ACCORDANCE WITH ANSI B46.1.
2. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.031.
3. VOLTAGE RATING: 115V 400Hz NOMINAL L-W OR 200V 400Hz NOMINAL L-L.

PREPARING ACTIVITY: NAVY-AS

CUSTODIANS: ARMY- ER

NAVY-

AIR FORCE- 85

DLA-

REVIEW:

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