

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.

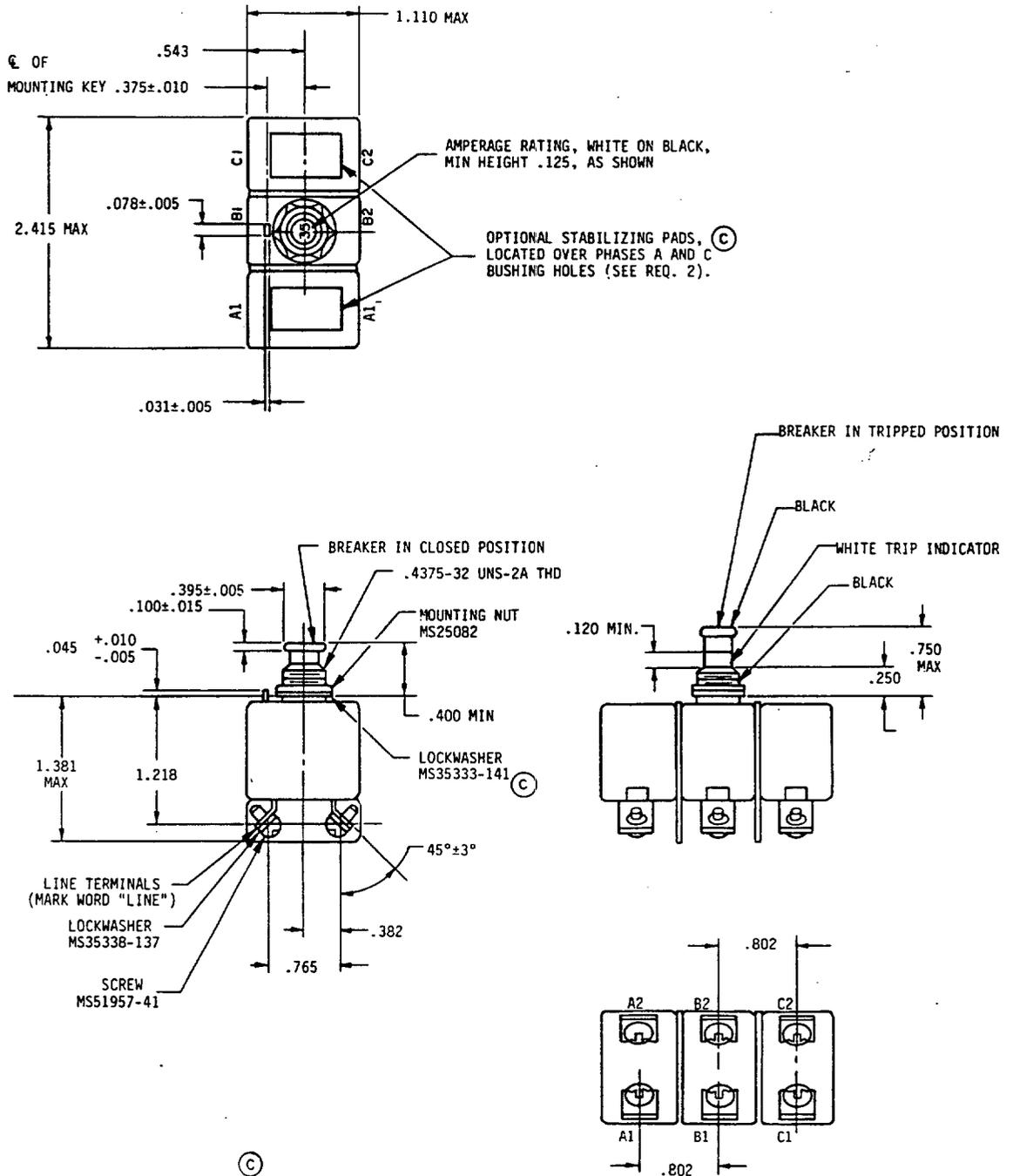


FIGURE I. TRIP-FREE CIRCUIT BREAKER

(C) DENOTES CHANGES

| | | |
|---|--|--|
| PREPARING ACTIVITY: NAVY-AS CUSTODIANS: ARMY-ER NAVY- AIR FORCE-65 DLA- | MILITARY SPECIFICATION SHEET TITLE CIRCUIT BREAKER-AIRCRAFT, TRIP-FREE, PUSH-PULL 3 PHASE, 1 THRU 35 AMP, TYPE 1 | SPECIFICATION SHEET NUMBER MS14153C 9 JAN 90 SUPERSEDING MS14153B 30 NOV 87 AMSC- N/A FSC 5925 |
| REVIEW: USER: PROJECT NUMBER: 5925-0201 | | |

DISTRIBUTION STATEMENT

A. Approved for public release; distribution is unlimited.

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C 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 | .25 | 12 | 12 | 5000 1/ | NONE | 2500 1/ | NONE | 5000 |
| 15 | 15 | .25C | | | | | | | | |
| 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 | | | | | | | | |
|-----------------------|--|--|-----|-----|------|--|--|-----|------|------|--|--|-----|------|------|----|----|----|----|
| | % OF RATED CURRENT | | | | | % OF RATED CURRENT | | | | | % OF 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. | 4 | 0.4 | 0.10 | MUST HOLD 1 HOUR MIN. MUST TRIP 1 HOUR MAX. | MUST HOLD 1 HOUR MIN. MUST TRIP 1 HOUR MAX. | 6 | 0.55 | 0.15 | MUST HOLD 1 HOUR MIN. MUST TRIP 1 HOUR MAX. | MUST HOLD 1 HOUR MIN. MUST TRIP 1 HOUR MAX. | 3 | 0.33 | 0.06 | | | | |
| 15 | | | TO | TO | TO | | | TO | TO | TO | | | TO | TO | TO | TO | TO | TO | |
| 20 | | | 20 | 2.0 | 0.53 | | | 40 | 3.5 | 60 | | | 20 | 1.7 | 0.40 | | | | |
| 25 | | | 4/ | 4/ | 4/ | | | 3/ | 3/ | 4/ | | | 4/ | 4/ | 3/ | 3/ | 4/ | 4/ | 4/ |
| 30 | | | 3/ | 3/ | 4/ | | | 4/ | 4/ | 4/ | | | 4/ | 4/ | 3/ | 3/ | 4/ | 4/ | 4/ |
| 35 | | | 3/ | 3/ | 4/ | | | 4/ | 4/ | 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.

C TABLE III. INTERRUPTING CAPACITY REQUIREMENTS-AMPERES.

| NOMINAL AMPERE RATING | TEST DESIGNATION PER MIL-C-5809 | | | | | | | | | | | |
|-----------------------|---------------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | A | | B | | C | D | E | F | G | | H | |
| | 1Ø | 3Ø | 1Ø | 3Ø | | | | | 1Ø | 3Ø | 1Ø | 3Ø |
| 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 E |

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.

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

PREPARING ACTIVITY: NAVY-AS
CUSTODIANS: ARMY- ER NAVY-
AIR FORCE- 85 DLA-

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
MS14153C 9 JAN 90

SUPERSEDING
MS14153B 30 NOV 1987

AMSC- N/A FSC5925

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