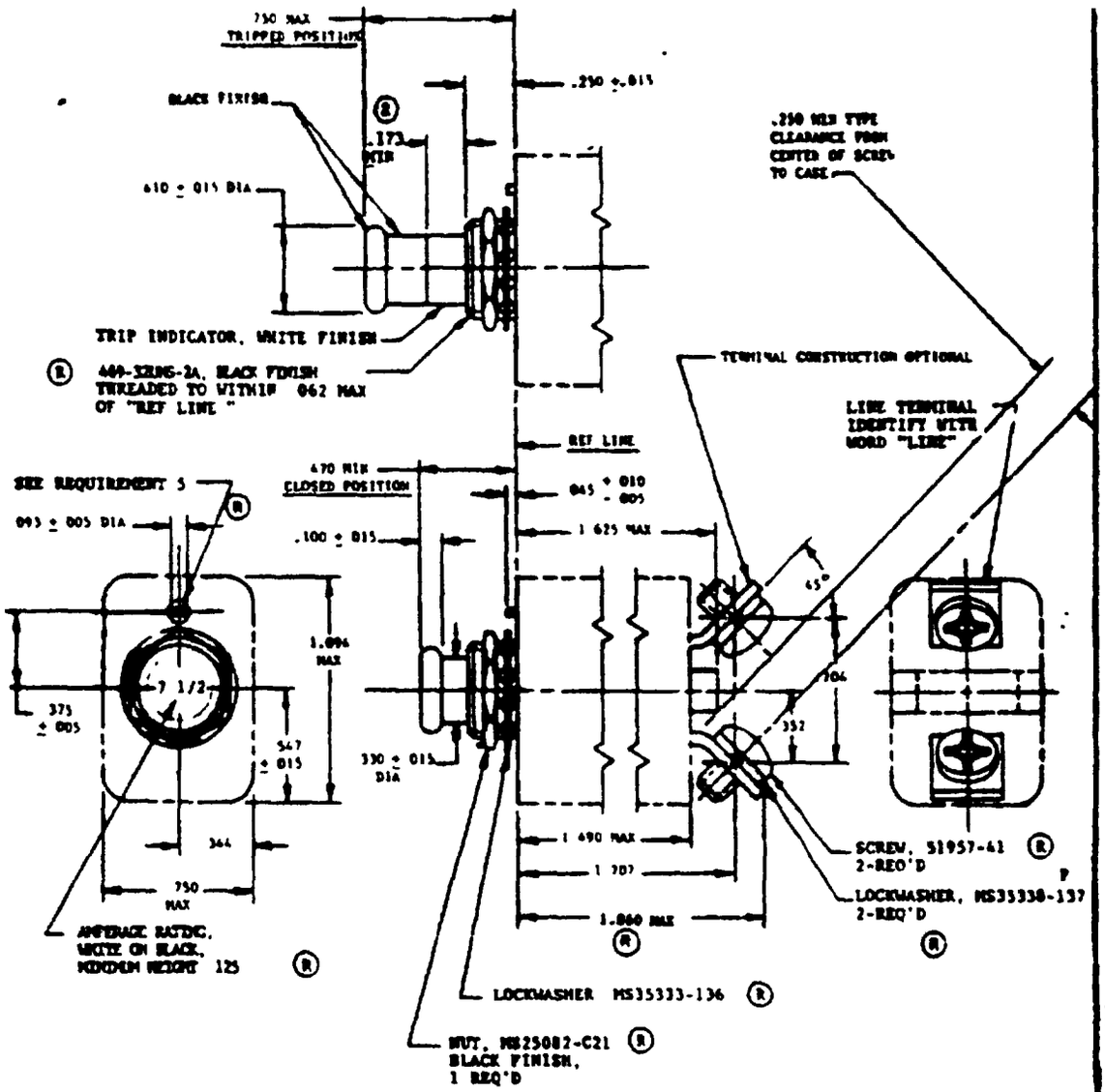


(P) DENOTES CHANGES

| | | | |
|---|---|---|---|
| P.A. NAVY - AS Other Cust USAF - 85 ARMY - PE | INTERNATIONAL TYPE * | TITLE (P) Circuit Breaker, Trip-Free, Push-Pull, 5 Thru 50 Amp, Type I | MILITARY STANDARD MS25244 |
| PROCUREMENT SPECIFICATION MIL-C-5809 | | SUPERSEDES MS25244(ASG), MS25017 | SHEET 1 OF 5 |

DD FORM 1 JAN 64 672-1 (Coordinated)

PROJECT NO 5925-0175

APPROVED 27 Aug 67 REVISED (R) 30 NOV 1987

AMSC N/A

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REVISIONS PRINCIPAL, NAVY - AS, USAF - 85, ARMY - PE, DSCC - VQE

REV 67

TABLE I (R)

| ELECTRICAL AND MECHANICAL CHARACTERISTICS | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| BASE NUMBER | NOMINAL CAPACITY (AMPERES) | VOLTAGE DROP MAX (V) | WEIGHT MAX (LBS) | OPERATING FORCE MAX (LBS) | | ENDURANCE CYCLES | | | | MECH NO LOAD |
| | | | | | | RESISTIVE | | INDUCTIVE | | |
| | | | | PULLOUT | RESET | AC | DC | AC | DC | |
| 5 | 5 | 0 25 | 0 1 | 8 | 12 | 1/ 5 000 | 2/ 5,000 | 1/ 2,500 6 TO 7 LAGGING POWER FACTOR | 2/ 2,500 | 5,000 |
| 7-1/2 | 7 5 (7-1/2) | | | | | | | | | |
| 10 | 10 | | | | | | | | | |
| 15 | 15 | | | | | | | | | |
| 20 | 20 | | | | | | | | | |
| 25 | 25 | | | | | | | | | |
| 30 | 30 | | | | | | | | | |
| 35 | 35 | | | | | | | | | |
| 50 | 50 | | | | | | | | | |

1/ 400 CYCLES 115/200 VOLT SYSTEM, TESTED AT 120 ± 5 VOLTS 380-420 HZ
2/ 28 VOLTS DC, TESTED AT 30 ± 3 VOLTS

TABLE II (R)

| DETAIL CALIBRATION REQUIREMENTS - TRIP IN SECONDS | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NOMINAL CAPACITY (AMPERES) | +25°C PERCENT RATED CURRENT | | | | | -40°C PERCENT RATED CURRENT | | | +71°C PERCENT RATED CURRENT | | | |
| | 115 | 138 | 200 | 400 | 600 | 148 | 156 | 178 | 60 | 70 | 108 | 114 |
| 5 | MUST HOLD - 1 HOUR MIN. | MUST TRIP - 1 HOUR MAX. | 15 TO 55 | 2 TO 7 | 1.0 TO 3 5 | (*) | MUST HOLD - 1 HOUR MIN. | MUST TRIP - 1 HOUR MAX | MUST HOLD - 1 HOUR MIN. | (*) | MUST TRIP - 1 HOUR MAX. | (*) |
| 7 5 (7½) | | | | | | MUST HOLD - 1 HOUR MIN | (*) | | (*) | MUST HOLD - 1 HOUR MIN | (*) | MUST TRIP - 1 HOUR MAX. |
| 10 | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 50 | | | | | | | | | | | | |

(a) TEMPERATURE TOLERANCE ±2°C
(*) NOT APPLICABLE

(R) FOR CHANGES SEE SHEET 1

APPROVED 27 APR 1967

| | | | |
|---|---|---|---|
| P.A. NAVY — AS Other Cust USAF - 85 ARMY - ER | INTERNATIONAL INTEREST (SEE NOTE) 4 | TITLE (R) Circuit Breaker, Trip-Free, Push-Pull, 5 Thru 50 Amp, Type I | MILITARY STANDARD MS25244 |
| PROCUREMENT SPECIFICATION MIL-C-5809 | | SUPERSEDING MS25244(ASG), MS29017 | SHEET 2 OF 5 |

DD FORM 672-1

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DESC - ES

TABLE III (R)

| INTERRUPTION CURRENT (AMPERES) REQUIREMENTS | | | | | | |
|---|---|---|---|---|---|---|
| NOMINAL CAPACITY (AMPERES) | TEST DESIGNATION PER MIL-C-5809 | | | | | |
| | A | B | C | D | E | F |
| 5 | 3,500 | 3,500 | 6,000 | 6,000 | (a) 2,000<br>(b) 1,000<br>(c) 750 | (a) 3,000<br>(b) 1,500<br>(c) 1,000 |
| 7.5 (7½) | | | | | | |
| 10 | | | | | | |
| 15 | | | | | | |
| 20 | | | | | | |
| 25 | | | | | | |
| 30 | | | | | | |
| 35 | | | | | | |
| 50 | | | | | | |

TABLE IV (R)

| ENVIRONMENTAL PERFORMANCE | |
|---|---|
| MAXIMUM OPERATING ALTITUDE - FT | 65,000 |
| OPERATING AMBIENT TEMPERATURE RANGE | -40°C TO +71°C |
| VIBRATION - IN ACCORDANCE WITH MIL-C-5809 | SINE - REQUIRED<br>RANDOM - (OPTIONAL) |
| SHOCK | 30 G, MIL-STD-202, METHOD 213, TEST CONDITION J |
| ACCELERATION | 10 G |

REQUIREMENTS

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

MS25244 - P 05
- 05 — AMPERAGE RATING
- P — RANDOM VIBRATION LEVEL (OPTION)
- P — MOUNTING AND/OR TERMINAL CONFIGURATION
- MS25244 — BASIC PART NUMBER

2. CIRCUIT BREAKERS ARE NONRECYCLING AS DEFINED IN MIL-C-5809
3. MS25244-1 and MS25244-3 are cancelled No superseding standard.
4. MS25244-PT SUPERSEDES MS25017 AND MS25005 PART NUMBERS OF MS25244-PT ARE INACTIVE FOR NEW DESIGN
5. MS25244 CIRCUIT BREAKERS MAY BE SUPPLIED WITH A RECTANGULAR KEYTAB OF .093 ± .005" WIDTH AND .031 ± .005 HEIGHT

NOTES

1. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCE DECIMALS ± .031" ANGLES ±2°
2. PHANTOM LINES INDICATE THAT CONTOUR IS OPTIONAL PROVIDED MAXIMUM DIMENSIONS ARE NOT EXCEEDED
3. CERTAIN PROVISIONS OF THIS 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 RECONCILATION ACTION THROUGH INTERNATIONAL STANDARDIZATION CHANNELS, INCLUDING DEPARTMENTAL STANDARDIZATION OFFICES, IF REQUIRED
4. FOR DESIGN FEATURE PURPOSES THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN REFERENCE DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID
5. VOLTAGE RATING 28 VOLTS DC NOMINAL OR 115 VOLTS 400 HZ NOMINAL



USAF - 11 DESC - ES

FOR CHANGES SEE SHEET 1 (R) 27 APR 1967

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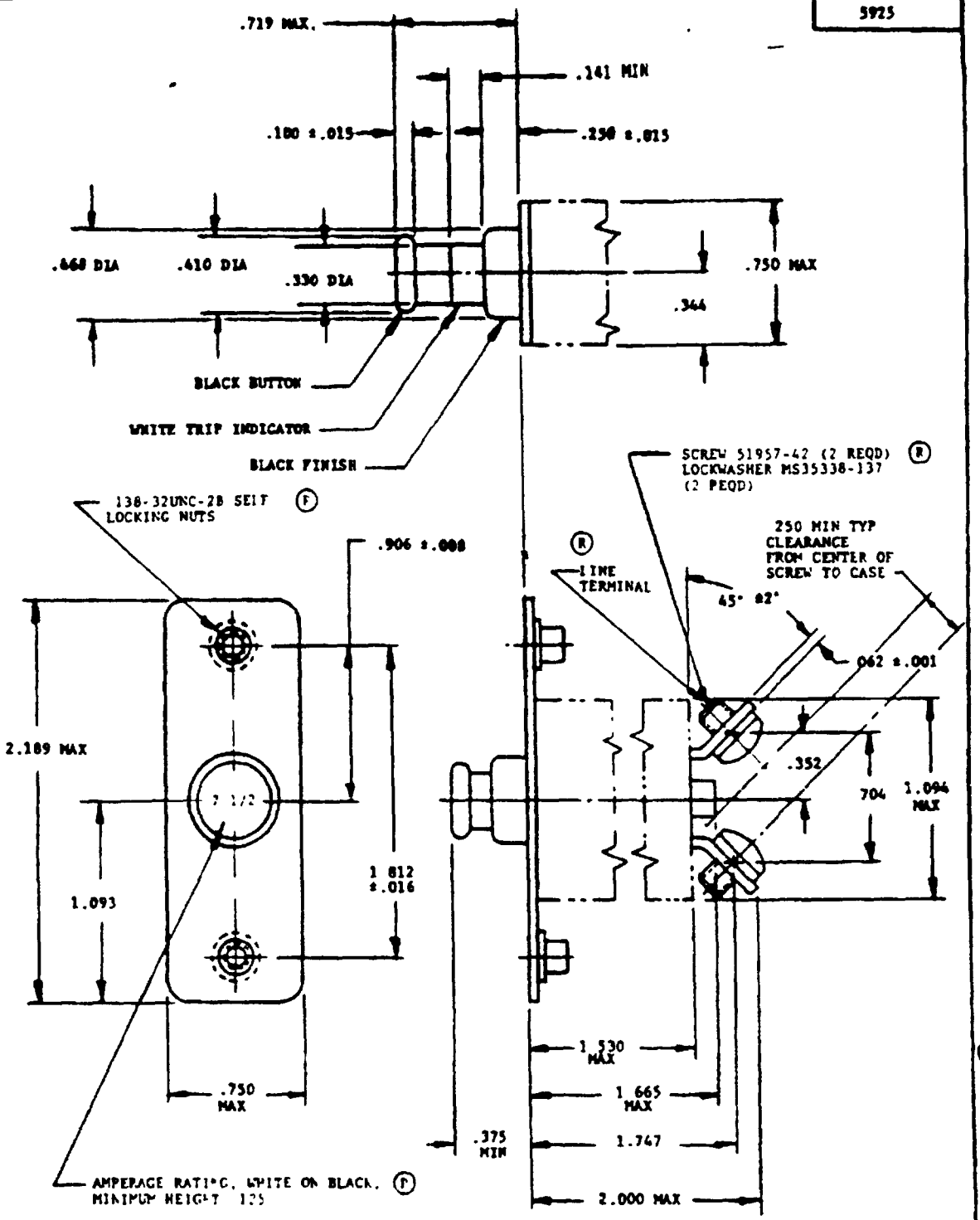



(P) CIRCUIT BREAKERS SIMILAR TO THOSE ON SHEET 1 BUT MODIFIED WITH AN ADAPTER MOUNTING PLATE SHALL HAVE THE ABOVE OUTLINE AND CONFIGURATION AND SHALL BE DESIGNATED BY ADDING THE PREFIX LETTER F BEFORE THE AMPERAGE RATING CODE

Example MS25244-P10

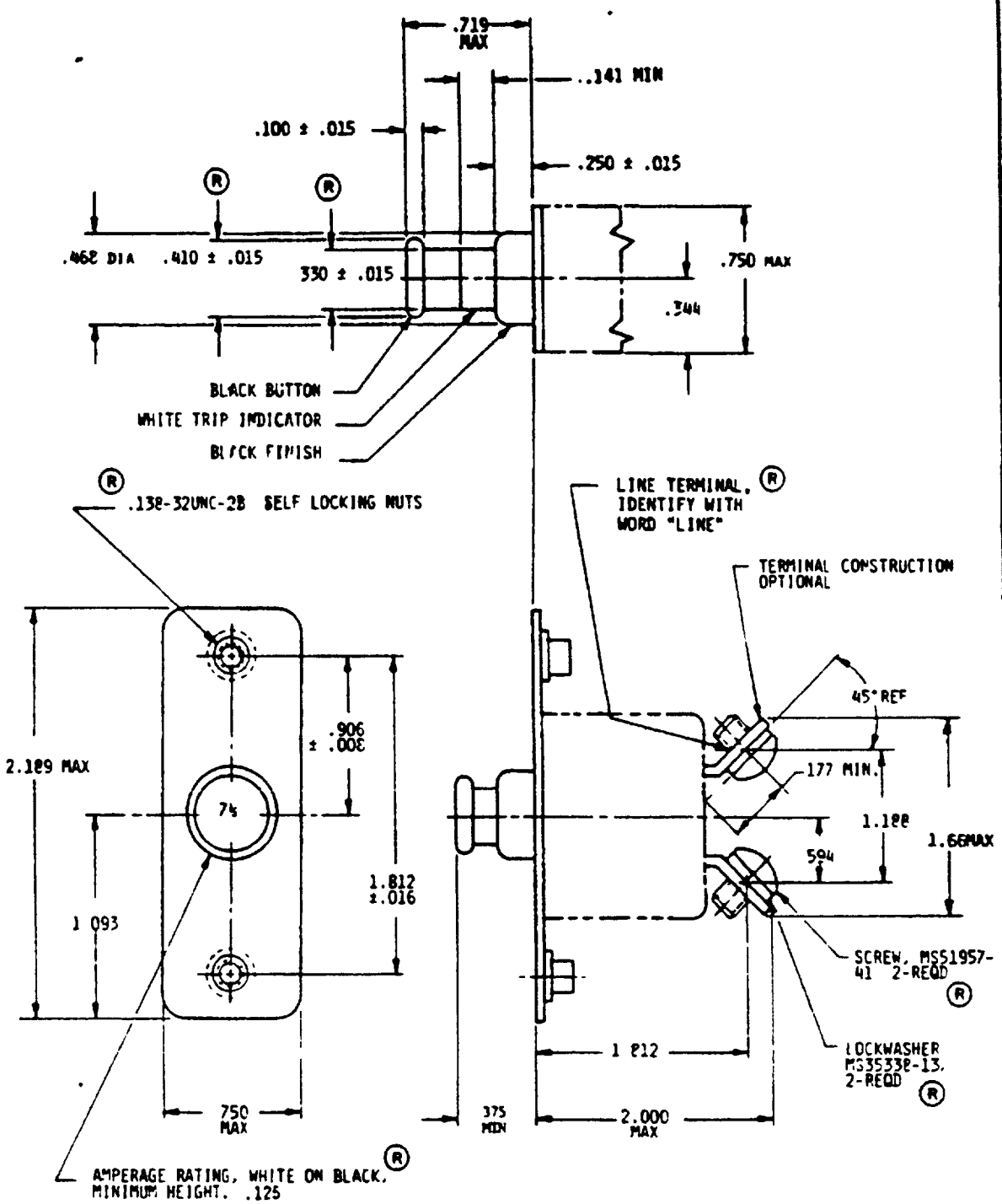
APPROVED 27 APR 67 REVISED (R) FOR CHANGES SEE SHEET 1

| | | | |
|---|---|---|---|
| P.A. NAVY - AS Other Cust USAF - 85 ARMY - ER | INTER-NATIONAL INTEREST (SEE NOTE) | TITLE (R) Circuit Breaker, Trip-Free, Push-Pull, 5 Thru 50 Amp, Type 1 | MILITARY STANDARD MS25244 |
| PROCUREMENT SPECIFICATION MIL-C-5809 | | SUPERSEDES MS25244 (ASG), MS25017 | SHEET 4 OF 5 |

DD FORM 1 MAR 72 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PLATE NO 22000




(R) CIRCUIT BREAKERS SIMILAR TO THOSE ON SHEET 1, BUT MODIFIED WITH AN ADAPTER MOUNTING PLATE AND ALTERNATE TERMINAL CONFIGURATION SHALL HAVE THE ABOVE OUTLINE AND CONFIGURATION AND BE DESIGNATED BY ADDING THE PREFIX CODE "PT" BEFORE THE AMPERAGE RATING CODE

Example MS25244-PT10

| | | | |
|---|---|---|---|
| P.A. NAVY — AS Other Cust USAF - ES ARMY - ER | INTERNATIONAL INTEREST (SEE NOTE 4) | TITLE (R) Circuit Breaker, Trip-Free, Push-Pull, 5 Thru 50 Amp, Type I | MILITARY STANDAR MS 25244 |
| PROCUREMENT SPECIFICATION MIL-C-5809 | | SUPERSEDING MS25244 (ASG), MS25017 | SHEET 5 OF 5 |

DD FORM 672-1

USAF - 11
NESC - ES

MODIFIED