

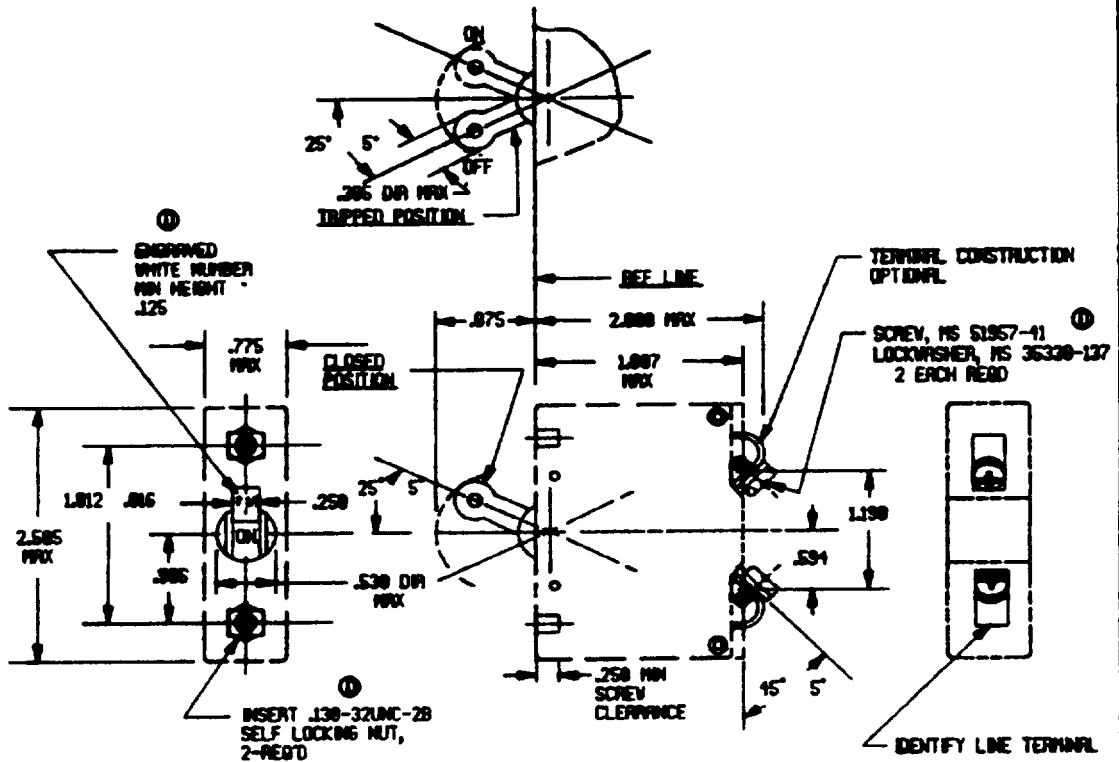
PWA-RP-672-1  
5825

USER SYMBOLS

REVIEWER SYMBOLS

Revised information is current as of the date of this document.  
For future contribution of changes to this document, all circulation  
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APPROVED FOR RELEASE  
This military standard is approved for use by all Departments  
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specifications and design modifications and for revisions not that  
is made from this document.



① DENOTES CHANGES

MILITARY STANDARD	
MS 25304	
1 2 3	

DD FORM 672-1

PROJECT NO. 5825-0001

30 NOV 1987  
7 DEC 83  
28 March 1989  
4 Nov 83  
28 Apr 89

FED. SUP. CLASS  
5825

TABLE I (D)

## ELECTRICAL AND MECHANICAL CHARACTERISTICS

DASH NUMBER	NOMINAL CAPACITY AMPERES (A)	VOLTAGE DROP MAX (V)	WEIGHT MAX (LBS )	OPERATING FORCE		ENDURANCE CYCLES				MECHANICAL NO LOAD
				MAX ON	LBS OFF	RESISTIVE		INDUCTIVE		
						AC	DC	AC	DC	
1/10	0 1(1/10)	28								
2/10	0 2(2/10)	13								
3/10	0.3(3/10)	9								
5/10	0 5(1/2)	6								
7/10	0 7(7/10)	4								
1	1	3								
2	2	1.5								
3-1/2	3.5(3-1/2)	0.83	0 27	3	3	10,000 <sup>1/</sup>	10,000 <sup>2/</sup>	10,000 <sup>1/</sup> .6 to .7 LAGGING POWER FACTOR	10,000 <sup>2/</sup>	10,000
5	5	0.60								
7-1/2	7.5(7-1/2)									
10	10									
15	15									
20	20	0 30								
25	25									
30	30									

<sup>1/</sup> 400 CYCLE 115/200 VOLT SYSTEM, TESTED AT 120 ± 5 VOLTS 360-420 HZ.  
<sup>2/</sup> 20 VOLT DC SYSTEM, TESTED AT 30 ± 1 VOLTS

TABLE II (D)

## DETAIL CALIBRATION REQUIREMENTS - TRIP TIME IN SECONDS

NOMINAL CAPACITY AMPERES (A)	+25°C					-33°C		+121°C	
	PERCENT RATED CURRENT					PERCENT RATED CURRENT		PERCENT RATED CURRENT	
	110	130	200	400	600	110	175	110	150
SAME AS TABLE I	MUST HOLD 1 HOUR MIN	MUST TRIP 1 HOUR MAX	10-80	1-9	0 02-0 4	MUST HOLD 1 HOUR MIN	MUST TRIP 1 HOUR MAX	MUST HOLD 1 HOUR MIN	MUST TRIP 1 HOUR MAX

AMBIENT TEMPERATURE TOLERANCE ± 2°C

TABLE III

## INTERRUPTING CAPACITY (AMPERES) REQUIREMENTS

NOMINAL CAPACITY AMPERES (A)	TEST DESIGNATION PER MIL-C-5809							
	A	B	C	D	E	F	G	H
	10	30	10	30	10	30	10	30
SAME AS TABLE I	3,500	3,500	3,000	3,000	(a) 2,000 (b) 1,000 (c) 750	(b) 1,500 (b) 750 (c) 500	(*)	(*)

(\*) NOT APPLICABLE

P.A.  
NAVY - AS  
ARMY - ER  
USAF - 85  
INTER-  
NATIONAL  
INTEREST

WWS

Circuit Breaker - Aircraft, Trip-Free,  
Toggle, 0.1 to 50 Amp, Type II

MILITARY STANDARDS

MS25304

RECOMMENDED SPECIFICATION  
MIL-C-5809

SUPERSEDES:

SHEET 2 OF 3

DD FORM 672-1 (Rev. 10-60)

REPLACES EDITION OF THIS FORM AND COVERS:

PLATE NO. 25304

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REVISION D PER CHANGES SEE SHEET 1  
APPROVED 20 Apr 58

FOR OFF CLASS  
5925

TABLE IV

ENVIRONMENTAL PERFORMANCE	
MAXIMUM OPERATING ALTITUDE - FT	50,000
OPERATING AMBIENT TEMPERATURE RANGE	-55°C TO +121°C
VIBRATION - IN ACCORDANCE WITH MIL-C-5809	SINE - (REQUIRED)
SHOCK	250 MIL-STD-202 METHOD 213 TEST CONDITION J
ACCELERATION	100

## REQUIREMENTS:

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

MS25304-5

AMPERAGE RATING

BASIC PART NUMBER

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

2. MARKING THE WORDS "ON" AND "OFF" SHALL BE ENGRAVED ON EACH LEVER

## NOTES:

1. DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED; TOLERANCES DECIMALS  $\pm .031$ ; DIMENSIONS AND TOLERANCES IN ACCORDANCE WITH ANSI Y14.5M-82
  2. PHANTOM LINES INDICATE THAT CONTOUR IS OPTIONAL PROVIDED MAXIMUM DIMENSIONS ARE NOT EXCEEDED.
  3. VOLTAGE RATING 20 VDC NOMINAL OR 115V 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
- \* CERTAIN PROVISIONS OF THIS STANDARD ARE SUBJECT OF INTERNATIONAL 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

P.A.  
NAVY - AS  
Other Code  
INTER-  
NATIONAL  
USAF - 85  
ARMY - ER  
INTEREST

TITLE

Circuit Breaker - Aircraft, Trip-Free,  
Toggle, 0.1 to 50 Amp, Type II

MILITARY STANDARD

MS25304

PREPARING ACTIVITY  
MIL-C-5809

SUPERSEDED:

QUANTITY 3 OF 3

DD FORM 672-1 (Continued)

REVISIONS OF THIS FORM ARE OBSOLETE

PLATE NO. 1000

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REVISION 0 FOR CHANGES SEE SHEET 1  
APPROVED 28 Apr 58