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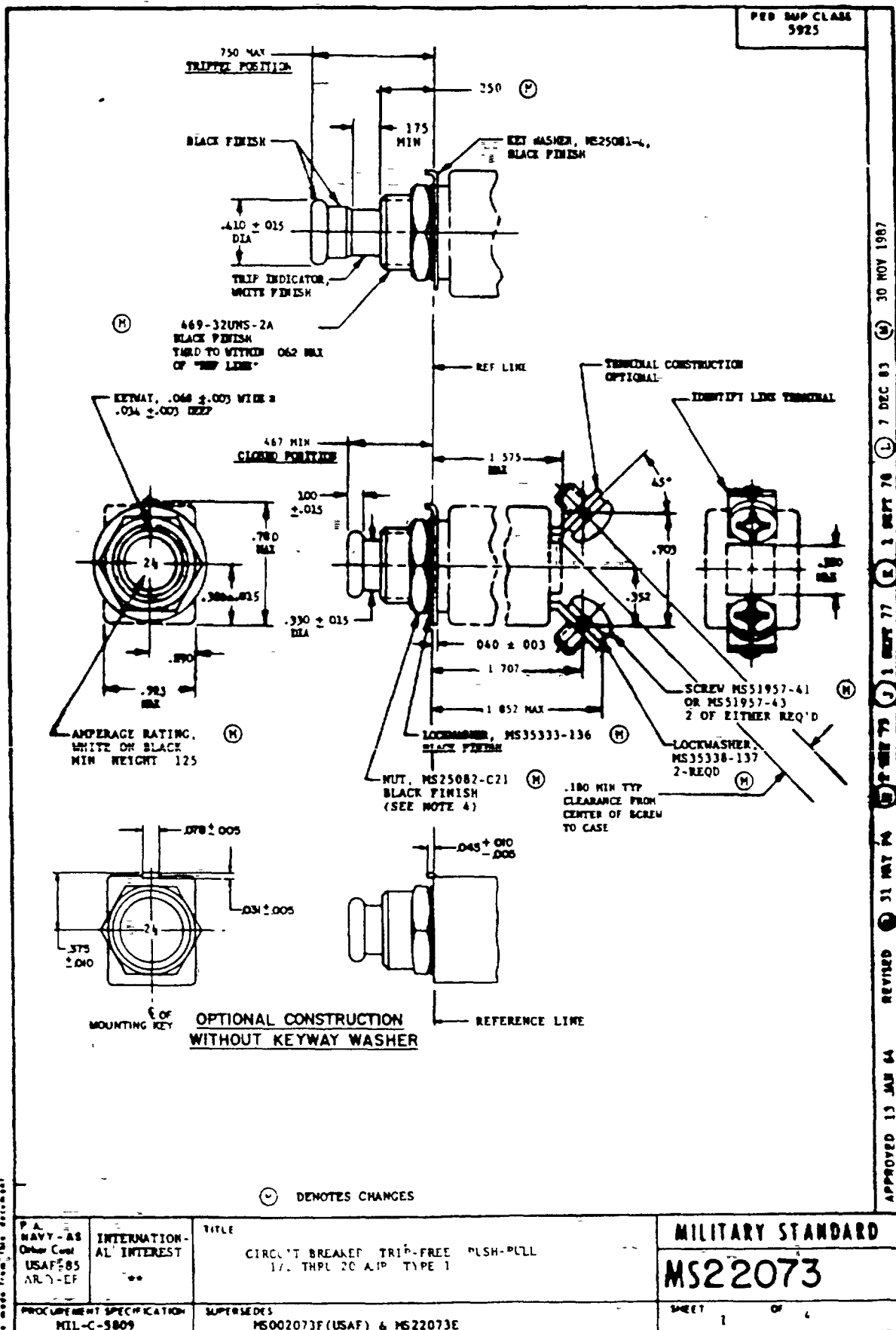
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USE SYMBOLS

SEE SYMBOLS

DRAWING



DD FORM 672-1 (Coordinated)

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PROJECT NO. 5015-0174

ENGINEERING SPECIFICATIONS

MS 22

APPROVED 13 JAN 64 REVISED 31 MAY 74 31 MAY 75 1 SEPT 77 1 SEPT 78 7 DEC 83 30 NOV 1987

5010 SYMBOLS

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be made from this document.

P80 EMP CLASS
5925

TABLE I (M)

ELECTRICAL AND MECHANICAL CHARACTERISTICS

ELECTRICAL AND MECHANICAL CHARACTERISTICS										
DASH NUMBER	NOMINAL CAPACITY (AMPERES)	VOLTAGE DROP MAX	WEIGHT MAX (LBS)	OPERATING FORCE MAX (LBS)		ENDURANCE CYCLES				MECH NO LOAD
				PULLOUT	RESET	RESISTIVE		INDUCTIVE		
						AC	DC	AC	DC	
1/2	0.5 (1/2)	2.00	0.84	5	5	1/ 5,000	2/ 5,000	1/ 2,500 0.6 to 0.7 LAGGING POWER FACTOR	2/ 2,500	5,500
3/4	0.75 (3/4)	1.45								
1	1	1.10								
1-1/2	1.5 (1-1/2)	0.75								
2	2	0.75								
2-1/2	2.5 (2-1/2)	0.70								
3	3	0.55								
4	4	0.45								
5	5	0.35								
7-1/2	7.5 (7-1/2)	0.30								
10	10	0.28								
15	15	0.25V								
20	20	0.25V								

1/ 400 HZ 115/210 VOLT SYSTEM, TESTED AT 120 \pm 5 VOLTS 380-420 HZ
2/ 28 VOLTS DC SYSTEM, TESTED AT 20 \pm 2 VOLTS

TABLE II (M)

DETAIL CALIBRATION REQUIREMENTS - TRIP TIME IN SECONDS

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NOMINAL CAPACITY (AMPERES)	+23°C PERCENT RATED CURRENT					-55°C PERCENT RATED CURRENT		+71°C PERCENT RATED CURRENT	
	115	150	200	500	1000	135	180	90	130
	MUST HOLD-1 HOUR MIN		MUST TRIP-1 HOUR MAX			MUST HOLD-1 HOUR MIN		MUST TRIP-1 HOUR MAX	
0.5 (1/2)			↓	↓	↓				
0.75 (3/4)									
1									
1.5 (1-1/2)									
2			2 TO 20	0.16 TO 2.0	0.46 TO 0.8				
2.5 (2-1/2)									
3									
4									
5									
7.5 (7-1/2)									
10									
15									
20			↓	↓	↓				

AMBIENT TEMPERATURE TOLERANCE \pm 2°C

P A T E N T NAVY-AS Other Com USAF-85 ARMY-ER	INTERNATIONAL INTEREST	TITLE CIRCUIT BREAKER TRIP-FREE PLUSH-PLLL 1 2 THRL 20 AMP TYPE 1	MILITARY STANDARD MS22073
PROCUREMENT SPECIFICATION MIL-C-5809	SUPERSEDES MS0022073F(USAF) & MS22073E	SHEET 2 OF 4	

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PLATE 001 0000

ENGINEERING SPECIFICATIONS
AND STANDARDS DEPARTMENT 0A 9E

APPROVED 13 JAN 64 REVISED (M) FOR CHANGES SEE SHEET 1

TABLE III

INTERRUPTING CURRENT (AMPERES) REQUIREMENTS						
NOMINAL CAPACITY (AMPERES)	TEST DESIGNATION PER MIL-C-5809					
	A	B	C	D	E	F
0.5 (1/2)	UNLIMITED	UNLIMITED	UNLIMITED	UNLIMITED	(a) 2,000	UNLIMITED
0.75 (3/4)					(b) 1,000	
1					(c) 750	
1.5 (1-1/2)	UNLIMITED	UNLIMITED	UNLIMITED	UNLIMITED		(a) 3,000
2					(a) 500	(b) 1,500
2.5 (2-1/2)					(b) 300	(c) 1,000
3	800	800			(c) 50	
4	UNLIMITED	UNLIMITED	UNLIMITED	UNLIMITED		UNLIMITED
5						
7.5 (7-1/2)						
10	500	500	2,000	2,000	(a) 300	(a) 1,500
15	UNLIMITED	UNLIMITED	UNLIMITED	UNLIMITED	(b) 50	(b) 1,000
20						(c) 500

TABLE IV

ENVIRONMENTAL PERFORMANCE	
MAXIMUM OPERATING ALTITUDE - FT	80 000
OPERATING AMBIENT TEMPERATURE RANGE	-55°C TO +71°C
VIBRATION - IN ACCORDANCE WITH MIL-C-5809	SINE - REQUIRED HIGH LEVEL SINE - (OPTIONAL) RANDOM - (OPTIONAL)
SHOCK	30G MIL-STD-202, METHOD 213 TEST CONDITION J
ACCELERATION	10G

107-2242-0101

[illegible]

Review/new information is correct as of the date of this document for future coordination of changes to this document, draft amendments should be based on the information in the current 00118.

[illegible]

APPROVED 13 JAN 63 REVISED (M) FOR CHANGES SEE SHEET 1

PA NAVY-AS Other Code USAF-BS ARMY-ER	INTERNATIONAL INTEREST * *	TITLE CIRCUIT BOARD FOR THE 1. THE ...	MILITARY STANDARD MS22073
PROCUREMENT SPECIFICATION MIL-C-5809		SUPERSEDES MS0022073F(USAF) & MS22073E	SHEET 3 OF 4

DD FORM 672-1 (Coordinated)

DOI: 10.1002/for

SL 434 NC 1000

ENGINEERING SPECIFICATIONS

USGS SYMBOLS:

REVISED SYMBOLS:

USAF - IT
DODC - 10

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should be sent to the information in the current document."

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in the Department of Defense. Deviations for all non-
military uses and other applications and for building use shall
be made from this document."

FED MWP CLAIM
5925

REQUIREMENTS

- 1 MOUNTING NUT TORQUE 40 IN LB MAX
- 2 THE PART NUMBERS FOR CIRCUIT BREAKERS IN ACCORDANCE WITH THIS SPECIFICATION SHALL CONFORM TO THE EXAMPLE BELOW

MS22073 - DSV

HIGH VIBRATION CAPABILITY (OPTION)

AMPERAGE RATING

RANDOM VIBRATION LEVEL (OPTION)

(M)

BASIC PART NUMBER

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

- 3 CIRCUIT BREAKERS ARE DESIGNED TO BE TRIP FREE AS DEFINED IN MIL-C-5809
- 4 VOLTAGE RATING 28 VDC NOMINAL OR 115V 400 HZ NOMINAL

NOTES

- 1 DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED TOLERANCE DECIMALS $\pm .031$; ANGLES $\pm 2^\circ$
- 2 PHANTOM LINES INDICATE THAT CONTOUR IS OPTIONAL PROVIDED MAXIMUM DIMENSIONS ARE NOT EXCEEDED

APPROVED 13 JAN 64 REVISED (M) FOR CHANGES SEE SHEET 1

P.A. NAVY - AS Owner/Control USAF-85 ARMY-ER	INTERNATIONAL INTEREST **	TITLE CIRCUIT BREAKER TRIP-FREE TRIP-ROLL 1 1/2 THRU 20 AMPERE	MILITARY STANDARD MS22073
PROCUREMENT SPECIFICATION MIL-C-5809	SUPERSEDES MS0022073F (USAF) & MS22073E	SHEET 4 OF 4	

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MILITARY

PLATE NO. 22073

 ENGINEERING SPECIFICATIONS
AND STANDARDS DEPARTMENT DATE