

USE SYMBOLS

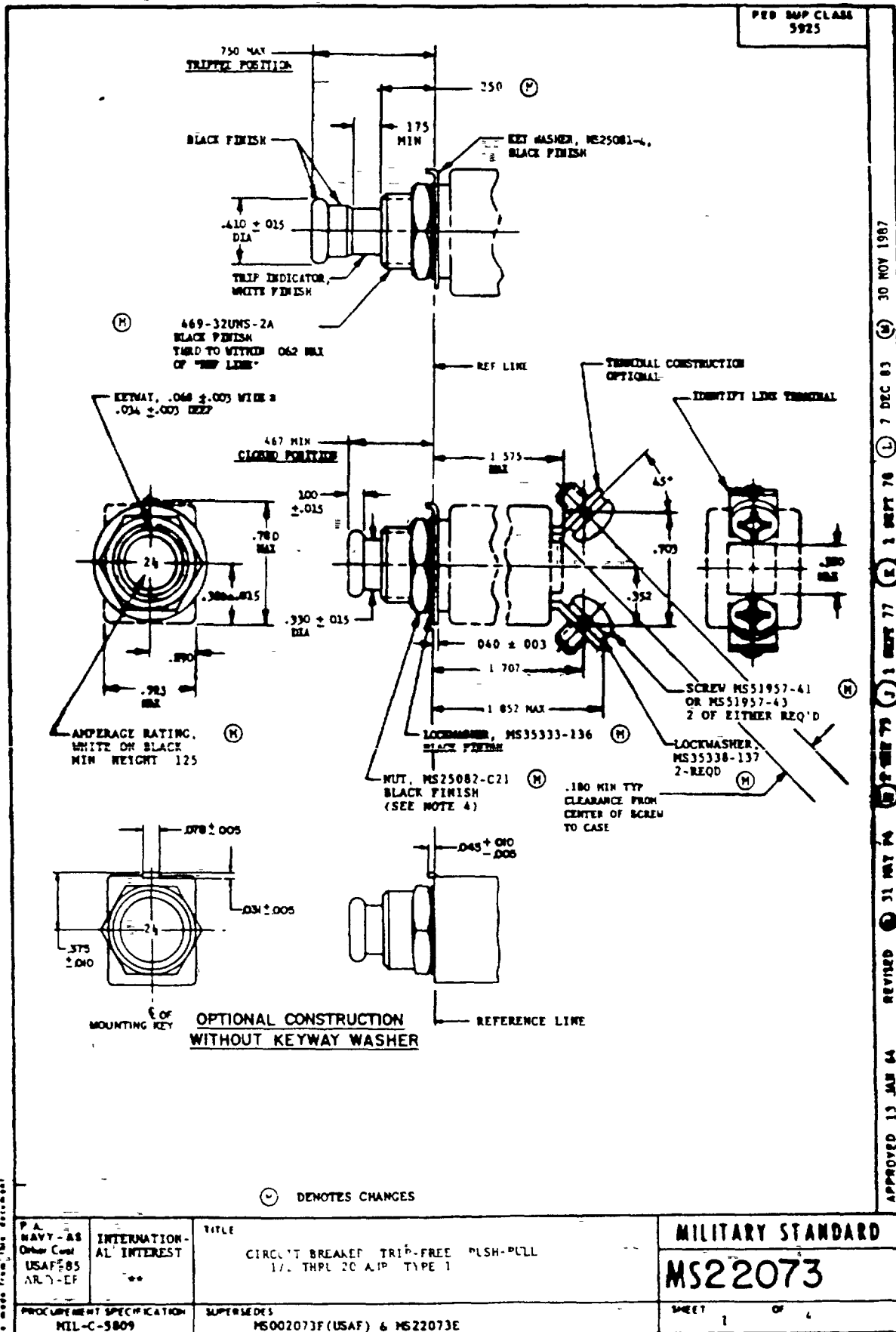
SEE SYMBOLS

DRAWING

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DD FORM 672-1 (Coordinated)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

PROJECT NO. 5015-0174

ENGINEERING SPECIFICATIONS

REV

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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This military standard is approved for use by all Departments
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engineering and design applications and for updating and shall
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
						RESISTIVE		INDUCTIVE		
				PULLOUT	RESET	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

DETAIL CALIBRATION REQUIREMENTS - TRIP TIME IN SECONDS									
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)				0.16 TO 2.0	0.16 TO 0.8				
1									
1.5 (1-1/2)									
2			2 TO 20						
2.5 (2-1/2)									
3									
4									
5									
7.5 (7-1/2)									
10									
15									
20									

AMBIENT TEMPERATURE TOLERANCE $\pm 2^\circ\text{C}$

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

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	

DD FORM 672-1 (Coordinated)

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PLATE 001 0000

FED SUP CLASS
9925

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	(a) 3,000
0.75 (3/4)					(b) 1,000	
1					(c) 750	
1.5 (1-1/2)						
2	800	800	2,000	2,000	(a) 500	(b) 1,500
2.5 (2-1/2)					(b) 300	(c) 1,000
3					(c) 50	
4						
5	500	500	2,000	2,000	(a) 300	(a) 1,500
7.5 (7-1/2)					(b) 50	(b) 1,000
10						(c) 500
15						
20						

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

USE SYMBOLS:

REVISION SYMBOLS:

MSAP - 91
DESC - ES

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P.A. NAVY - AS Other Code USAF-85 ARMY-ER	INTERNATION- AL INTEREST * *	TITLE CIRCUIT BREAKER, TYPE FREE, DISC, 1000 A, 1000 V, 1000 F, 1000 H, 1000 J, 1000 K, 1000 L, 1000 M, 1000 N, 1000 O, 1000 P, 1000 Q, 1000 R, 1000 S, 1000 T, 1000 U, 1000 V, 1000 W, 1000 X, 1000 Y, 1000 Z, 1000 AA, 1000 AB, 1000 AC, 1000 AD, 1000 AE, 1000 AF, 1000 AG, 1000 AH, 1000 AI, 1000 AJ, 1000 AK, 1000 AL, 1000 AM, 1000 AN, 1000 AO, 1000 AP, 1000 AQ, 1000 AR, 1000 AS, 1000 AT, 1000 AU, 1000 AV, 1000 AW, 1000 AX, 1000 AY, 1000 AZ, 1000 BA, 1000 BB, 1000 BC, 1000 BD, 1000 BE, 1000 BF, 1000 BG, 1000 BH, 1000 BI, 1000 BJ, 1000 BK, 1000 BL, 1000 BM, 1000 BN, 1000 BO, 1000 BP, 1000 BQ, 1000 BR, 1000 BS, 1000 BT, 1000 BU, 1000 BV, 1000 BW, 1000 BX, 1000 BY, 1000 BZ, 1000 CA, 1000 CB, 1000 CC, 1000 CD, 1000 CE, 1000 CF, 1000 CG, 1000 CH, 1000 CI, 1000 CJ, 1000 CK, 1000 CL, 1000 CM, 1000 CN, 1000 CO, 1000 CP, 1000 CQ, 1000 CR, 1000 CS, 1000 CT, 1000 CU, 1000 CV, 1000 CW, 1000 CX, 1000 CY, 1000 CZ, 1000 DA, 1000 DB, 1000 DC, 1000 DD, 1000 DE, 1000 DF, 1000 DG, 1000 DH, 1000 DI, 1000 DJ, 1000 DK, 1000 DL, 1000 DM, 1000 DN, 1000 DO, 1000 DP, 1000 DQ, 1000 DR, 1000 DS, 1000 DT, 1000 DU, 1000 DV, 1000 DW, 1000 DX, 1000 DY, 1000 DZ, 1000 EA, 1000 EB, 1000 EC, 1000 ED, 1000 EE, 1000 EF, 1000 EG, 1000 EH, 1000 EI, 1000 EJ, 1000 EK, 1000 EL, 1000 EM, 1000 EN, 1000 EO, 1000 EP, 1000 EQ, 1000 ER, 1000 ES, 1000 ET, 1000 EU, 1000 EV, 1000 EW, 1000 EX, 1000 EY, 1000 EZ, 1000 FA, 1000 FB, 1000 FC, 1000 FD, 1000 FE, 1000 FF, 1000 FG, 1000 FH, 1000 FI, 1000 FJ, 1000 FK, 1000 FL, 1000 FM, 1000 FN, 1000 FO, 1000 FP, 1000 FQ, 1000 FR, 1000 FS, 1000 FT, 1000 FU, 1000 FV, 1000 FW, 1000 FX, 1000 FY, 1000 FZ, 1000 GA, 1000 GB, 1000 GC, 1000 GD, 1000 GE, 1000 GF, 1000 GG, 1000 GH, 1000 GI, 1000 GJ, 1000 GK, 1000 GL, 1000 GM, 1000 GN, 1000 GO, 1000 GP, 1000 GQ, 1000 GR, 1000 GS, 1000 GT, 1000 GU, 1000 GV, 1000 GW, 1000 GX, 1000 GY, 1000 GZ, 1000 HA, 1000 HB, 1000 HC, 1000 HD, 1000 HE, 1000 HF, 1000 HG, 1000 HH, 1000 HI, 1000 HJ, 1000 HK, 1000 HL, 1000 HM, 1000 HN, 1000 HO, 1000 HP, 1000 HQ, 1000 HR, 1000 HS, 1000 HT, 1000 HU, 1000 HV, 1000 HW, 1000 HX, 1000 HY, 1000 HZ, 1000 IA, 1000 IB, 1000 IC, 1000 ID, 1000 IE, 1000 IF, 1000 IG, 1000 IH, 1000 II, 1000 IJ, 1000 IK, 1000 IL, 1000 IM, 1000 IN, 1000 IO, 1000 IP, 1000 IQ, 1000 IR, 1000 IS, 1000 IT, 1000 IU, 1000 IV, 1000 IW, 1000 IX, 1000 IY, 1000 IZ, 1000 JA, 1000 JB, 1000 JC, 1000 JD, 1000 JE, 1000 JF, 1000 JG, 1000 JH, 1000 JI, 1000 JJ, 1000 JK, 1000 JL, 1000 JM, 1000 JN, 1000 JO, 1000 JP, 1000 JQ, 1000 JR, 1000 JS, 1000 JT, 1000 JU, 1000 JV, 1000 JW, 1000 JX, 1000 JY, 1000 JZ, 1000 KA, 1000 KB, 1000 KC, 1000 KD, 1000 KE, 1000 KF, 1000 KG, 1000 KH, 1000 KI, 1000 KJ, 1000 KK, 1000 KL, 1000 KM, 1000 KN, 1000 KO, 1000 KP, 1000 KQ, 1000 KR, 1000 KS, 1000 KT, 1000 KU, 1000 KV, 1000 KW, 1000 KX, 1000 KY, 1000 KZ, 1000 LA, 1000 LB, 1000 LC, 1000 LD, 1000 LE, 1000 LF, 1000 LG, 1000 LH, 1000 LI, 1000 LJ, 1000 LK, 1000 LL, 1000 LM, 1000 LN, 1000 LO, 1000 LP, 1000 LQ, 1000 LR, 1000 LS, 1000 LT, 1000 LU, 1000 LV, 1000 LW, 1000 LX, 1000 LY, 1000 LZ, 1000 MA, 1000 MB, 1000 MC, 1000 MD, 1000 ME, 1000 MF, 1000 MG, 1000 MH, 1000 MI, 1000 MJ, 1000 MK, 1000 ML, 1000 MM, 1000 MN, 1000 MO, 1000 MP, 1000 MQ, 1000 MR, 1000 MS, 1000 MT, 1000 MU, 1000 MV, 1000 MW, 1000 MX, 1000 MY, 1000 MZ, 1000 NA, 1000 NB, 1000 NC, 1000 ND, 1000 NE, 1000 NF, 1000 NG, 1000 NH, 1000 NI, 1000 NJ, 1000 NK, 1000 NL, 1000 NM, 1000 NN, 1000 NO, 1000 NP, 1000 NQ, 1000 NR, 1000 NS, 1000 NT, 1000 NU, 1000 NV, 1000 NW, 1000 NX, 1000 NY, 1000 NZ, 1000 OA, 1000 OB, 1000 OC, 1000 OD, 1000 OE, 1000 OF, 1000 OG, 1000 OH, 1000 OI, 1000 OJ, 1000 OK, 1000 OL, 1000 OM, 1000 ON, 1000 OO, 1000 OP, 1000 OQ, 1000 OR, 1000 OS, 1000 OT, 1000 OU, 1000 OV, 1000 OW, 1000 OX, 1000 OY, 1000 OZ, 1000 PA, 1000 PB, 1000 PC, 1000 PD, 1000 PE, 1000 PF, 1000 PG, 1000 PH, 1000 PI, 1000 PJ, 1000 PK, 1000 PL, 1000 PM, 1000 PN, 1000 PO, 1000 PP, 1000 PQ, 1000 PR, 1000 PS, 1000 PT, 1000 PU, 1000 PV, 1000 PW, 1000 PX, 1000 PY, 1000 PZ, 1000 QA, 1000 QB, 1000 QC, 1000 QD, 1000 QE, 1000 QF, 1000 QG, 1000 QH, 1000 QI, 1000 QJ, 1000 QK, 1000 QL, 1000 QM, 1000 QN, 1000 QO, 1000 QP, 1000 QQ, 1000 QR, 1000 QS, 1000 QT, 1000 QU, 1000 QV, 1000 QW, 1000 QX, 1000 QY, 1000 QZ, 1000 RA, 1000 RB, 1000 RC, 1000 RD, 1000 RE, 1000 RF, 1000 RG, 1000 RH, 1000 RI, 1000 RJ, 1000 RK, 1000 RL, 1000 RM, 1000 RN, 1000 RO, 1000 RP, 1000 RQ, 1000 RR, 1000 RS, 1000 RT, 1000 RU, 1000 RV, 1000 RW, 1000 RX, 1000 RY, 1000 RZ, 1000 SA, 1000 SB, 1000 SC, 1000 SD, 1000 SE, 1000 SF, 1000 SG, 1000 SH, 1000 SI, 1000 SJ, 1000 SK, 1000 SL, 1000 SM, 1000 SN, 1000 SO, 1000 SP, 1000 SQ, 1000 SR, 1000 SS, 1000 ST, 1000 SU, 1000 SV, 1000 SW, 1000 SX, 1000 SY, 1000 SZ, 1000 TA, 1000 TB, 1000 TC, 1000 TD, 1000 TE, 1000 TF, 1000 TG, 1000 TH, 1000 TI, 1000 TJ, 1000 TK, 1000 TL, 1000 TM, 1000 TN, 1000 TO, 1000 TP, 1000 TQ, 1000 TR, 1000 TS, 1000 TT, 1000 TU, 1000 TV, 1000 TW, 1000 TX, 1000 TY, 1000 TZ, 1000 UA, 1000 UB, 1000 UC, 1000 UD, 1000 UE, 1000 UF, 1000 UG, 1000 UH, 1000 UI, 1000 UJ, 1000 UK, 1000 UL, 1000 UM, 1000 UN, 1000 UO, 1000 UP, 1000 UQ, 1000 UR, 1000 US, 1000 UT, 1000 UY, 1000 UZ, 1000 VA, 1000 VB, 1000 VC, 1000 VD, 1000 VE, 1000 VF, 1000 VG, 1000 VH, 1000 VI, 1000 VJ, 1000 VK, 1000 VL, 1000 VM, 1000 VN, 1000 VO, 1000 VP, 1000 VQ, 1000 VR, 1000 VS, 1000 VT, 1000 VU, 1000 VV, 1000 VW, 1000 VX, 1000 VY, 1000 VZ, 1000 WA, 1000 WB, 1000 WC, 1000 WD, 1000 WE, 1000 WF, 1000 WG, 1000 WH, 1000 WI, 1000 WJ, 1000 WK, 1000 WL, 1000 WM, 1000 WN, 1000 WO, 1000 WP, 1000 WQ, 1000 WR, 1000 WS, 1000 WT, 1000 WU, 1000 WV, 1000 WW, 1000 WX, 1000 WY, 1000 WZ, 1000 XA, 1000 XB, 1000 XC, 1000 XD, 1000 XE, 1000 XF, 1000 XG, 1000 XH, 1000 XI, 1000 XJ, 1000 XK, 1000 XL, 1000 XM, 1000 XN, 1000 XO, 1000 XP, 1000 XQ, 1000 XR, 1000 XS, 1000 XT, 1000 XU, 1000 XV, 1000 XW, 1000 XX, 1000 XY, 1000 XZ, 1000 YA, 1000 YB, 1000 YC, 1000 YD, 1000 YE, 1000 YF, 1000 YG, 1000 YH, 1000 YI, 1000 YJ, 1000 YK, 1000 YL, 1000 YM, 1000 YN, 1000 YO, 1000 YP, 1000 YQ, 1000 YR, 1000 YS, 1000 YT, 1000 YU, 1000 YV, 1000 YW, 1000 YX, 1000 YY, 1000 YZ, 1000 ZA, 1000 ZB, 1000 ZC, 1000 ZD, 1000 ZE, 1000 ZF, 1000 ZG, 1000 ZH, 1000 ZI, 1000 ZJ, 1000 ZK, 1000 ZL, 1000 ZM, 1000 ZN, 1000 ZO, 1000 ZP, 1000 ZQ, 1000 ZR, 1000 ZS, 1000 ZT, 1000 ZU, 1000 ZV, 1000 ZW, 1000 ZX, 1000 ZY, 1000 ZZ	PROCUREMENT SPECIFICATION MIL-C-5809	SUPERSEDES MS0022073F(USAF) & MS22073E	MILITARY STANDARD MS22073 SHEET 3 OF 4
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DD FORM 672-1 (Continued)

FORM 672-1 (Continued)

PLATE NO. 22073

ENGINEERING SPECIFICATIONS

APPROVED 13 JAN 65 REVISED (H) FOR CHANGES SEE SHEET 1

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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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/COM 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	

DD FORM 672-1 (Coordinate)

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MILITARY

PLATE NO 22073

 ENGINEERING SPECIFICATIONS
AND STANDARDS DEPARTMENT DATE