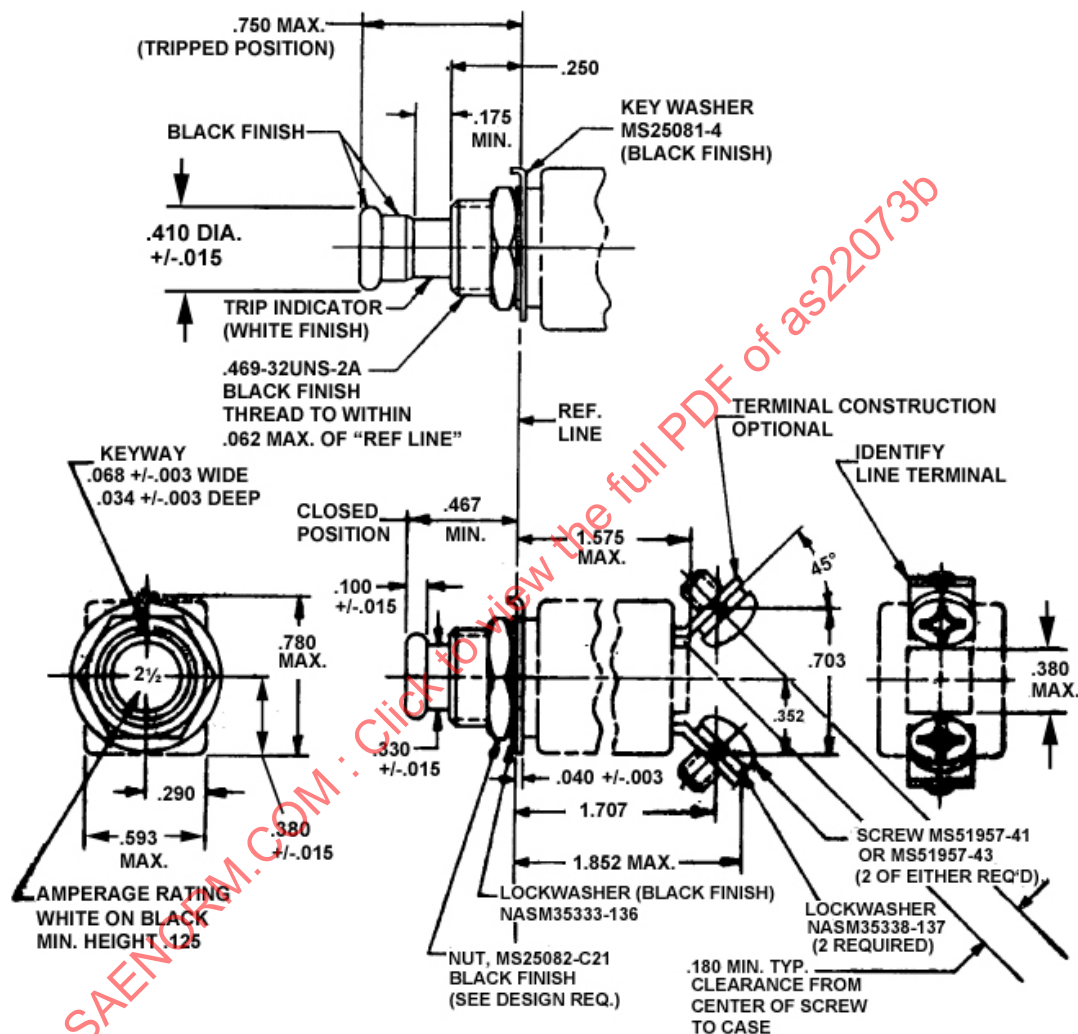


REVISION IS REQUIRED TO IMPROVE DRAWING QUALITY/DIMENSIONS, TO CLARIFY VIBRATION OPTIONS/PART NUMBER, TO REMOVE IMAGES AND REPLACE WITH WORD TEXT/TABLES, TO UPDATE SUPERSEDED COMPONENT REFERENCES, TO REMOVE GOVERNMENT JARGON, AND TO UPDATE DOCUMENT TO MOST CURRENT SAE GUIDELINES.

THE COMPLETE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS DOCUMENT AND THE LATEST ISSUE OF AS58091.



SAE values your input. To provide feedback on this Technical Report, please visit <http://www.sae.org/technical/standards/AS22073B>

PROCUREMENT SPECIFICATION: AS58091



(R) CIRCUIT BREAKER, TRIP-FREE, PUSH-PULL,
1/2 THRU 20 AMP. TYPE I

REV.
B

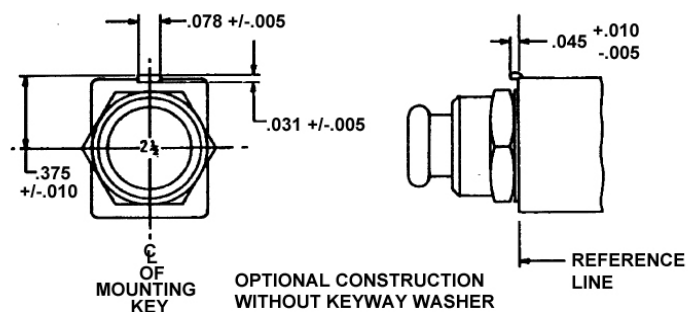


FIGURE 1 - CIRCUIT BREAKER CONFIGURATION AND DIMENSIONS (CONTINUED)

TABLE 1 - ELECTRICAL AND MECHANICAL CHARACTERISTICS

DASH NO.	NOMINAL CAPACITY (AMPERES)	VOLT DROP MAX. (VOLTS)	WEIGHT MAX. (LB)	OPERATING FORCE MAX. (LB)		ENDURANCE CYCLES				MECH. NO LOAD
				PULLOUT	RESET	RESISTIVE		INDUCTIVE		
						AC	DC	AC	DC	
1/2	.5 (1/2)	2.00	.084	5	5	5,000 1/	5,000 2/	2,500 1/ .6 TO.7 LAGGING POWER FACTOR	2,500 2/	5,500
3/4	.75 (3/4)	1.45								
1	1	1.10								
1-1/2	1.5 (1-1/2)	.75								
2	2	.75								
2-1/2	2.5 (2-1/2)	.70								
3	3	.55								
4	4	.45								
5	5	.35								
7-1/2	7.5 (7-1/2)	.30								
10	10	.28								
15	15	.25								
20	20	.25								

^{1/} 115/200 VOLT 400 HZ SYSTEM. TESTED AT 120 VOLTS ± 5 VOLTS 380 TO 420 HZ.

^{2/} 28 VDC SYSTEM, TESTED AT 30 VDC ± 2 VOLTS.

TABLE 2 - DETAIL CALIBRATION REQUIREMENTS (TRIP TIME IN SECONDS) ^{1/}

NOMINAL AMPERE RATING	+25 °C					-55 °C		+71 °C	
	% OF RATED CURRENT					% OF RATED CURRENT		% OF RATED CURRENT	
	115	150	200	500	1000	135	180	90	130
1/2	MUST HOLD 1 HOUR MIN. ^{2/}	MUST TRIP 1 HOUR MAX.	2 TO 20	.16 TO 2.0	.046 TO .8	MUST HOLD 1 HOUR MIN.	MUST TRIP 1 HOUR MAX.	MUST HOLD 1 HOUR MIN.	MUST TRIP 1 HOUR MAX.
3/4									
1									
1-1/2									
2									
2-1/2									
3									
4									
5									
7-1/2									
10									
15									
20									

^{1/} AMBIENT TEMPERATURE TOLERANCE ±2 °C.

TABLE 3 - INTERRUPTING CAPACITY REQUIREMENTS (AMPERES)

NOMINAL AMPERE RATING	TEST DESIGNATION PER AS58091					
	A	B	C	D	E	F
1/2	UNLIMITED	UNLIMITED	UNLIMITED	UNLIMITED	(A) 2,000 (B) 1,000 (C) 750	(A) 3,000 (B) 1,500 (C) 1,000
3/4						
1						
1-1/2						
2	800	800	UNLIMITED	UNLIMITED	(A) 500 (B) 300 (C) 50	(A) 3,000 (B) 1,500 (C) 1,000
2-1/2						
3						
4						
5	500	500	2,000	2,000	(A) 300 (B) 50	(A) 1,500 (B) 1,000 (C) 500
7-1/2						
10						
15						
20						

TABLE 4 - ENVIRONMENTAL PERFORMANCE

MAXIMUM OPERATING ALTITUDE - FEET	80,000
OPERATING AMBIENT TEMPERATURE RANGE	-55 TO +71 °C
VIBRATION - IN ACCORDANCE WITH AS58091	SINE - 10 G REQUIRED (NO DESIGNATOR IN THE PART NUMBER) HIGH LEVEL SINE 15 G (OPTIONAL, "V" DESIGNATOR IN THE PART NUMBER) RANDOM VIBRATION TESTING IS OPTIONAL, ANY OF CONDITIONS C THRU K OF MIL-STD-202, METHOD 214 MAY BE QUALIFIED IF TESTED, EACH CONDITION QUALIFIED WILL BE LISTED AS A DESIGNATOR IN THE PART NUMBER.
SHOCK	30 G, MIL-STD-202, METHOD 213, TEST J
ACCELERATION	10 G



AEROSPACE STANDARD

(R) CIRCUIT BREAKER, TRIP-FREE, PUSH-PULL,
1/2 THRU 20 AMP, TYPE I

AS22073™
SHEET 3 OF 4

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