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AS5692™/1

FEDERAL SUPPLY CLASS
5925

RATIONALE

AS5692/1 HAS BEEN REAFFIRMED TO COMPLY WITH THE SAE FIVE-YEAR REVIEW POLICY.

THE REQUIREMENTS FOR PROCURING THE PRODUCT DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE LATEST ISSUE OF: SAE AS5692.

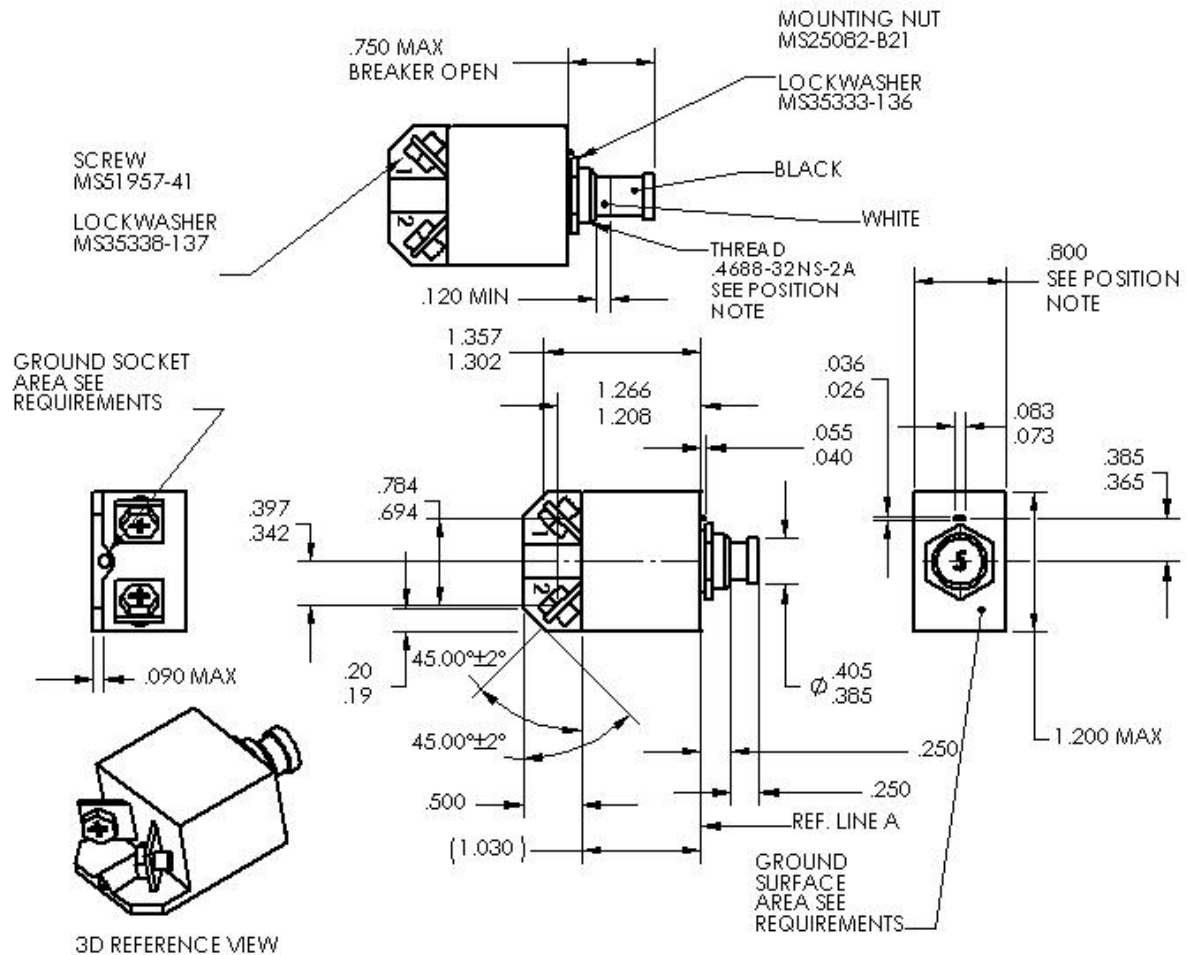
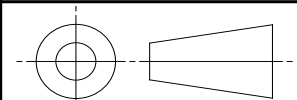


FIGURE 1

REF. LINE A REPRESENTS THE LOCATION OF THE INTERFACE BETWEEN THE AFCB AND THE PANEL. DIMENSIONS REFERENCED FROM "REF. LINE A" ARE THE DIMENSION FROM THE BACK OF THE PANEL TO THE DIMENSIONED FEATURE.

For more information on this standard, visit
<https://www.sae.org/standards/content/AS5692/1/>

THIRD ANGLE PROJECTION



CUSTODIAN: AE-8/AE-8B1

PROCUREMENT SPECIFICATION: AS5692



AEROSPACE STANDARD

ARC FAULT CIRCUIT BREAKER, TRIP FREE,
PUSH-PULL, FUSIBLE LINK DESIGN
2-1/2-15 AMPS, TYPE I

AS5692™/1
SHEET 1 OF 5

Documents

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TABLE 1 - ELECTRICAL AND MECHANICAL CHARACTERISTICS

DASH NO.	NOMINAL AMPERAGE RATING (A)	VOLTAGE DROP MAX (V)	WEIGHT MAX (LB)	OPERATING FORCE (LB)		ENDURANCE CYCLES		MECH NO LOAD CYCLES
						RESISTIVE	INDUCTIVE	
				PULLOUT	RESET	AC	AC	
2-½	2.5 (2-½)	0.75	.090	1-5	1-5	5,000	2,500	10,000
3	3	0.64						
5	5	0.50						
7-½	7.5 (7-½)	0.30						
10	10	0.28						
15	15	0.25						

TABLE 2 - DETAIL CALIBRATION REQUIREMENTS

NOMINAL AMPERAGE RATING (A)	OVERLOAD TRIP TIME IN SECS AT PERCENT RATED CURRENT 25 °C			AMBIENT EFFECT ON CALIBRATION AT PERCENT RATED CURRENT					
	200%	500%	1000%	+25 °C		+71 °C		-55 °C	
				115%	138%	90%	138%	115%	165%
2-½	4 TO 20	.4 TO 2	0.1 TO 0.53	MUST HOLD - 1 HOUR MIN	MUST TRIP - 1 HOUR MAX	MUST HOLD - 1 HOUR MIN	MUST TRIP - 1 HOUR MAX	MUST HOLD - 1 HOUR MIN	MUST TRIP - 1 HOUR MAX
3									
5									
7-½									
10									
15									

AMBIENT TOLERANCE ±2 °C

TABLE 3 - INTERRUPTING CAPACITY (AMPERES) REQUIREMENTS

NOMINAL AMPERAGE RATING (A)	TEST DESIGNATION PER AS5692		
	A	B	C
2-½	2800	2800	(a) 1,500 (b) 750
3			
5			
7-½			
10			
15	2000	2000	

TABLE 4 - ENVIRONMENTAL PERFORMANCE

MAX. OPERATING ALTITUDE	70,000 FEET
OPERATING AMBIENT TEMPERATURE RANGE	(-)55 °C – (+)71 °C
VIBRATION IN ACCORDANCE WITH AS5692	SINE - REQUIRED HIGH SINE - (OPTIONAL) RANDOM - (OPTIONAL)
SHOCK	50 G, MIL-STD-202, METHOD 213, CONDITION A
ACCELERATION	10 G

TABLE 5 - FUSE TIME

NOMINAL AMPERAGE RATING (A)	MAXIMUM CIRCUIT BREAKER LINKS SEPARATION (FUSING) TIMES FOR GIVEN OVERLOAD CURRENT (SECONDS)						
	400%	500%	600%	700%	800%	900%	1000%
2-½	-	-	34	20	13	9.0	6.0
3	-	-	34	20	13	9.0	6.0
5	-	95	36	18	10	6.0	3.5
7-½	69	28	14	8	4.5	3.5	2.0
10	322	110	30	15.5	7.0	4.0	2.5
15	78	25	14	8.0	5.0	3.0	2.0

	AEROSPACE STANDARD	AS5692™/1 SHEET 2 OF 5 
	ARC FAULT CIRCUIT BREAKER, TRIP FREE, PUSH-PULL, FUSIBLE LINK DESIGN 2-1/2-15 AMPS, TYPE I	



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