FEDERAL SUPPLY CLASS
5925

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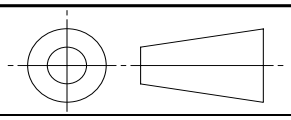
ISSUED 2004-06

THIRD ANGLE PROJECTION



CUSTODIAN: SAE AE-8/AE-8B1

PROCUREMENT SPECIFICATION: MIL-C-5809

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

CIRCUIT BREAKER -
AIRCRAFT, TRIP-FREE,
PUSH-PULL, 50 THRU 100 AMP, TYPE I

AS25361
SHEET 1 OF 4

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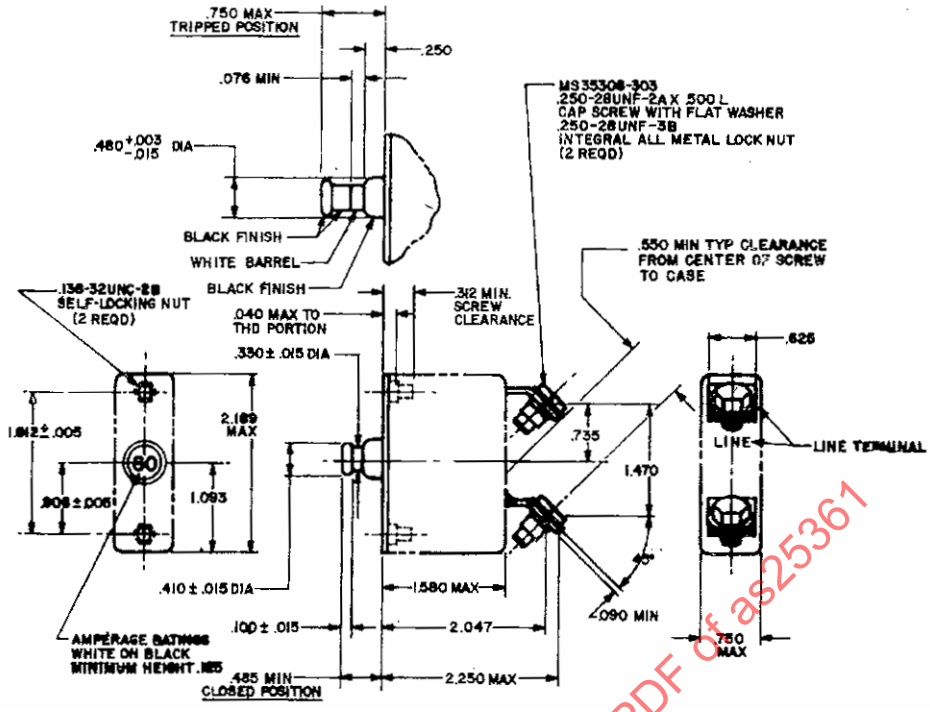

TABLE I

ELECTRICAL AND MECHANICAL CHARACTERISTICS										
DASH NUMBER	NOMINAL CAPACITY AMPERES (A)	VOLTAGE DROP MAX (V)	WEIGHT MAX (LBS)	OPERATING FORCE MAX (LBS)		ENDURANCE CYCLES				MECH NO LOAD
						RESISTIVE		INDUCTIVE		
				PULLOUT	RESET	AC	DC	AC	DC	
50	50	0.3	0.25	12	16	1/ 5,000	2/ 5,000	1/ 5,000 .6 TO .7 LAGGING POWER FACTOR	2/ 2,500	5,000
60	60									
70	70									
75	75									
80	80									
90	90									
100	100									

1/ 400 CYCLE 115/200 VOLT SYSTEM, TESTED AT 120 ±5 VOLTS 380-420 HZ.
2/ 28 VOLTS DC SYSTEM, TESTED AT 30 ± 2 VOLTS.

TABLE II

DETAIL CALIBRATION REQUIREMENTS - TRIP TIME IN SECONDS									
NOMINAL CAPACITY AMPERES (A)	25°C PERCENT RATED CURRENT					-40°C PERCENT RATED CURRENT		+71°C PERCENT RATED CURRENT	
	105	138	200	400	600	125	165	70	125
50	MUST HOLD - 1 HOUR MIN.	MUST TRIP - 1 HOUR MAX.	15 TO 65	2 TO 10	1 TO 4	MUST HOLD - 1 HOUR MIN.	MUST TRIP - 1 HOUR MAX.	MUST HOLD - 1 HOUR MIN.	MUST TRIP - 1 HOUR MAX.
60									
70									
75									
80									
90									
100									

AMBIENT TEMPERATURE TOLERANCE ±2°C.

TABLE III

	INTERRUPTING CURRENT (AMPERES) REQUIREMENTS					
NOMINAL CAPACITY AMPERES (A)	TEST DESIGNATION PER MIL-C-5809					
	A	B	C	D	E	F
50	3,500	3,500	6,000	6,000	a)2,000 b)1,000 c) 750	a)3,000 b)1,500 c)1,000
60						
70						
75						
80						
90						
100						

TABLE IV

ENVIRONMENTAL PERFORMANCE	
MAX OPERATING ALTITUDE-FT	70,000
OPERATING AMBIENT TEMP RANGE	-40°C TO +71°C
VIBRATION - IN ACCORDANCE WITH MIL-C-5809	SINE - REQUIRED HIGH LEVEL SINE (OPTION) RANDOM (OPTION)
SHOCK	30G MIL-STD-202, METHOD 213-TEST METHOD J
ACCELERATION	10G