

REV.
A

AS24510

RATIONALE

5 YEAR REVIEW AND CLEAN UP DRAWING TO ENSURE PRODUCT IS AS SUPPLIED.

FEDERAL SUPPLY CLASS
5925

THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED IN THAT ISSUE OF THE DODISS SPECIFIED IN THE SOLICITATION: SAE AS58091.

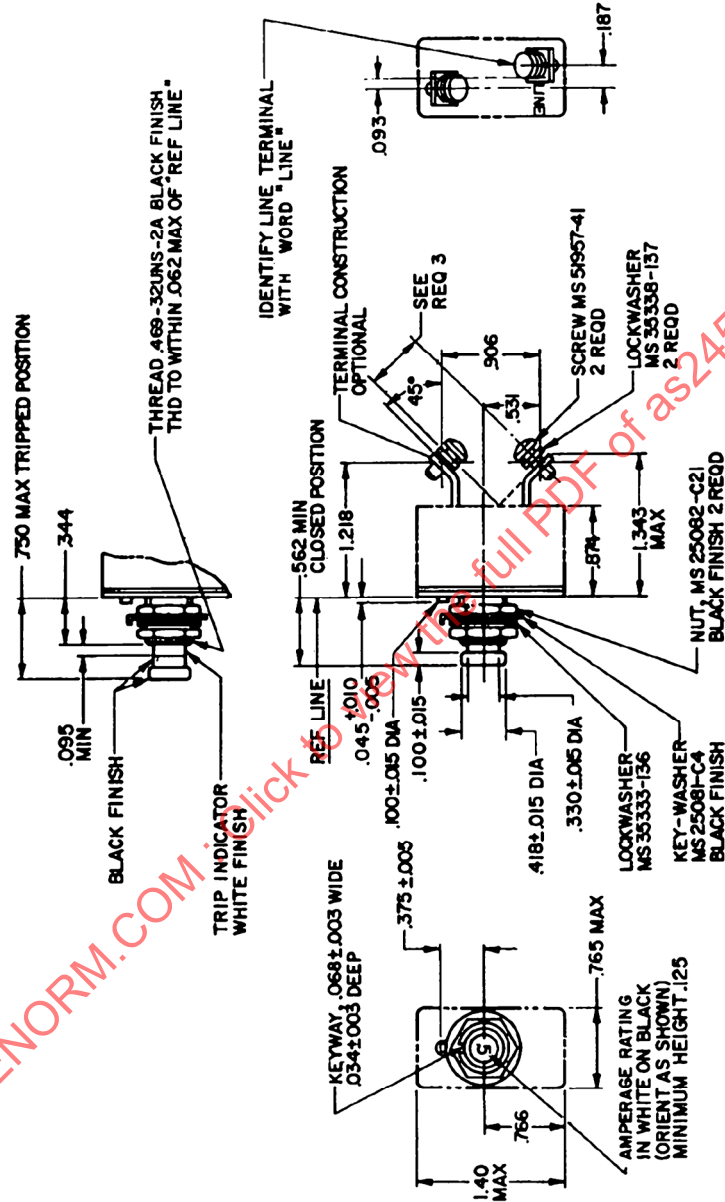
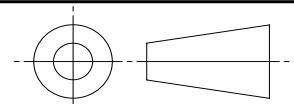


FIGURE 1

CONFIGURATION A (BUSHING MOUNT)

THIRD ANGLE PROJECTION



CUSTODIAN: SAE AE-8/AE-8B1

PROCUREMENT SPECIFICATION: AS58091

SAE Aerospace
An SAE International Group

AEROSPACE STANDARD

(R) CIRCUIT BREAKER - AIRCRAFT, TRIP-FREE,
PUSH-PULL, 5 THRU 15 AMP, TYPE I

AS24510
SHEET 1 OF 4

**REV.
A**

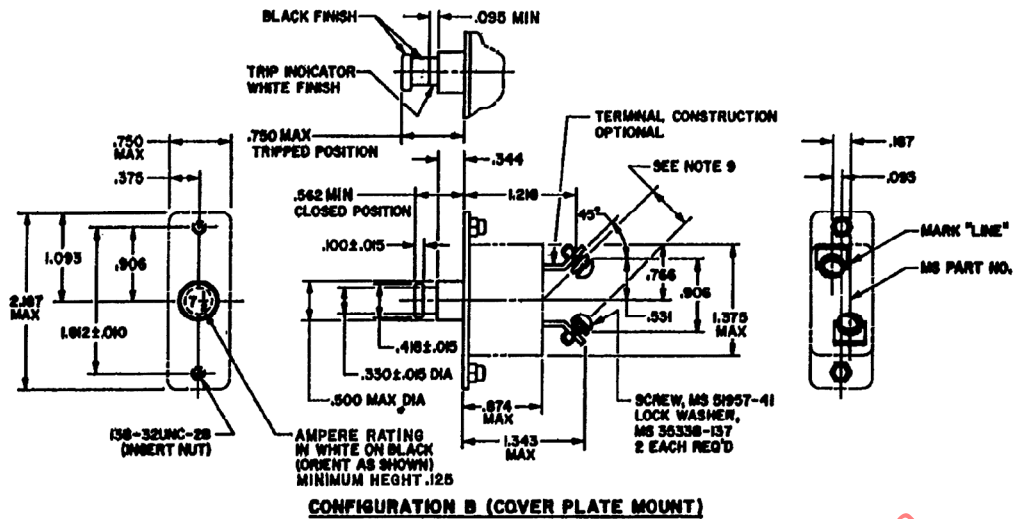
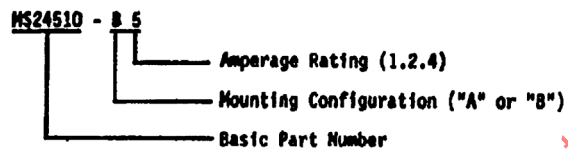


FIGURE 2

REQUIREMENTS:

1. THE PART NUMBERS FOR CIRCUIT BREAKERS IN ACCORDANCE WITH THIS SPECIFICATION SHALL CONFORM TO THE EXAMPLE BELOW.



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

2. CIRCUIT BREAKERS ARE RECYCLING AS DEFINED IN AS58091.
3. .425 MIN. TYP. CLEARANCE FROM CENTERLINE OF SCREW TO CASE.
4. MOUNTING NUT TORQUE: 65 INCH-POUNDS MAXIMUM.

TABLE 1

Electrical and mechanical characteristics										
Dash Number	Capacity Amperes	Voltage Drop Max	Weight Max	Operating force max lb		Endurance cycles				Mech No Load
				Pullout	Reset	Resistive		Inductive		
						AC	DC	AC	DC	
-5	5	.65	↑	↑	↑	↑	↑	↑	↑	↑
-7-1/2	7.5	↑	.089	8	12	5,000 ^{1/}	5,000 ^{2/}	5,000 ^{1/}	1,000 ^{2/}	10,000
-10	10	.50	↓	↓	↓	↓	↓	↓	↓	↓
-15	15	↓	↓	↓	↓	↓	↓	↓	↓	↓

^{1/} 115/200 volt 400 Hz system, tested at 120 ± 5 volts 380-420 Hz.
^{2/} 28 volt dc system, tested at 30 ± 2 volts.

TABLE 2

Detail calibration requirements - trip time in seconds								
Dash Number	115	+25 °C Percent rated current			600	-40 °C Percent rated current		+71° Percent rated current
		145	200	400		138	175	80 125
-5	NO TRIP 1 HOUR MAX	TRIP WITHIN 1 HOUR	40-100	3-22	1-10	NO TRIP 1 HOUR MAX	TRIP WITHIN 1 HOUR	NO TRIP 1 HOUR MAX
-7-1/2			10 to 70	0.75 to 7.0	0.25 to 2.5			
-10								
-15								

Ambient temperature tolerance ±2 °C.
 (*) Not applicable.

TABLE 3

Interrupting current (amperes) requirements									
Dash number	Test designation per AS58091								
	A	B	C	D	E	F	G	H	I
-5	↑	↑	↑	↑	↑	↑	↑	↑	↑
-7-1/2	3,500	3,500	6,000	6,000	1,000	1,500	(*)	(*)	(*)
-10	↓	↓	↓	↓	↓	↓	↓	↓	↓
-15	↓	↓	↓	↓	↓	↓	↓	↓	↓

(*) Not applicable

TABLE 4

ENVIRONMENTAL PERFORMANCE	
Max operating altitude - FT	70,000
Operating ambient temp range	-40 TO +71 °C
Vibration	MIL-STD-202, Method 204, Condition A
Shock	30G, MIL-STD-202, Method 213, TEST CONDITION J
Acceleration	10G