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PREPARED BY SAE SUBCOMMITTEE AE-8B1

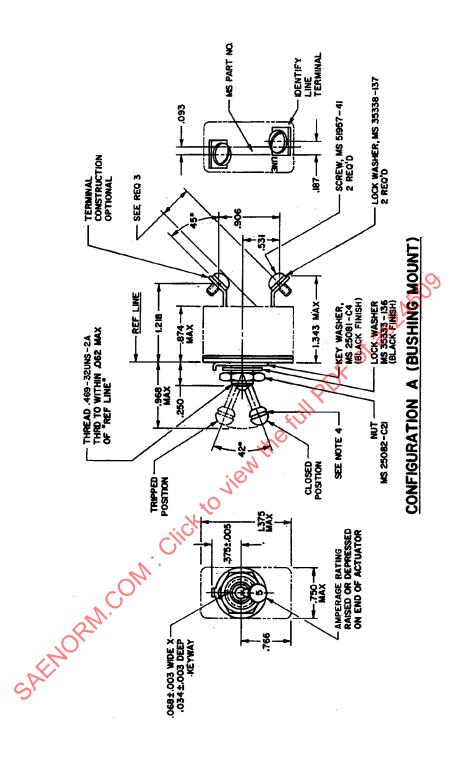
1 PROCUREMENT SPECIFICATION: MIL-C-5809

AEROSPACE STANDARD

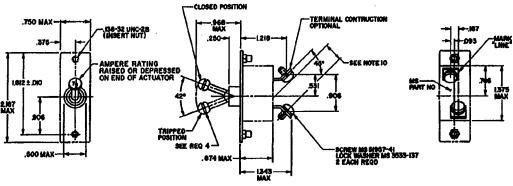


CIRCUIT BREAKER - AIRCRAFT, TRIP-FREE, TOGGLE, 5 THRU 15 AMP, TYPE I **AS24509** SHEET 1 OF 5

Printed in the U.S.A







CONFIGURATION B (COVER PLATE MOUNT)

REQUIREMENTS:

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



- 2. CIRCUIT BREAKERS ARE RECYCLING AS DEFINED IN MIL-C-5809.
- 3. .425 MIN. TYP. CLEARANCE FROM CENTERLINE OF SCREW TO CASE.
- 4. GROOVE INDICATES TRIP FREE ACTION.
- 5. MOUNTING NUT TORQUE: 65 INCH-POUNDS MAXIMUM.



TABLE I

Electrical and mechanical characteristics										
	Nomina]		Weight	Operating force max lbs		Endurance cycles Resistive Inductive				Hech
- Dash Number	Capacity Amperes	Voltage Drop Max	Max Lbs	Pullout	Reset	AC	DC	AC	DC	No Load
-5	5	.65	.087	6	6	5,000	5,000	5,000	1,000	10,000
-7-1/2	7.5	.50	.087	6	6	5,000	5,000	.6 to	1,000	10,000
-10	10	.50	.087	6	6	5,000	5,000	.7 LAG	1,000	10,000
-15	15	.50	.087	6	6	5,000	5,000	P.F.	1,000	10,000

1/ 400 cycle 115/200 volt system, tested at 120 \pm 5 volts 380-420 Mz. Z/ 28 volt dc system, tested at 30 \pm 2 volts.

TABLE II

		Deta1	calibration	n requirement	s - trip time	e in seconds			
Dash Number		Per	-40°C Percent rated current		+71° Percent rated				
	115	145	200	400	500	138	175	80	125
-5	HOUR	N 1	40- 100	3- 22	1~ 10	ADOR.	Solv.	HOUR	=
-7-1/2	=	WITHIN	10	0.75	0.25] [4	OF THE	-	NIHI
-10	ğ,	TRIP 1 HOUR	to 70	to 7.0	to 2.5	TRIP TAX	TRIP HOUR	NO TRIP MAX	_
-15	8 ₹	Ë¥				辞	是名	2₹	A S

Ambient	temperature	tolerance ±	2°C.		Ki						
				TAB	LE III)					
			Inter: up	in, current	(ampères) re	equirements					
Dash	Test designation per MIL-C-5809										
number	^	•	١ '	1/0	•	'	19	39	19	3#	
-5	3,500	3,500	6,000	6,000	1,000	1,500	(*)	(*)	(*)	(*	
-7-1/2	3,500	3,500	6,000	6,000	1,000	1,500	(+)	(*)	(+)	(*	
-10	3,500	3,500	6,000	6,000	1,000	1,500	(*)	(+)	(*)	(*	
-16	3,500	3,500	6,000	6,000	1,000	1,500	(*)	(+)	(+)	(·	

(*) Not applicable

TABLE IV

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