

AS25361

FEDERAL SUPPLY CLASS
5925

NOTICE

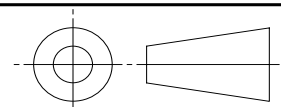
THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MS25361 REVISION P AND CONTAINS ONLY MINOR EDITORIAL AND FORMAT CHANGES REQUIRED TO BRING IT INTO CONFORMANCE WITH THE PUBLISHING REQUIREMENTS OF SAE TECHNICAL STANDARDS. THE INITIAL RELEASE OF THIS DOCUMENT IS INTENDED TO REPLACE MS25361 REVISION P. ANY PART NUMBERS ESTABLISHED BY THE ORIGINAL SPECIFICATION REMAIN UNCHANGED.

THE ORIGINAL MILITARY SPECIFICATION WAS ADOPTED AS AN SAE STANDARD UNDER THE PROVISIONS OF THE SAE TECHNICAL STANDARDS BOARD (TSB) RULES AND REGULATIONS (TSB 001) PERTAINING TO ACCELERATED ADOPTION OF GOVERNMENT SPECIFICATIONS AND STANDARDS. TSB RULES PROVIDE FOR (A) THE PUBLICATION OF PORTIONS OF UNREVISED GOVERNMENT SPECIFICATIONS AND STANDARDS WITHOUT CONSENSUS VOTING AT THE SAE COMMITTEE LEVEL, AND (B) THE USE OF THE EXISTING GOVERNMENT SPECIFICATION OR STANDARD FORMAT.

UNDER DEPARTMENT OF DEFENSE POLICIES AND PROCEDURES, ANY QUALIFICATION REQUIREMENTS AND ASSOCIATED QUALIFIED PRODUCTS LISTS ARE MANDATORY FOR DOD CONTRACTS. ANY REQUIREMENT RELATING TO QUALIFIED PRODUCTS LISTS (QPL'S) HAS NOT BEEN ADOPTED BY SAE AND IS NOT PART OF THIS TECHNICAL REPORT.

SAENORM.COM : Click to view the full PDF of as25361

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

ISSUED 2004-06

AS25361

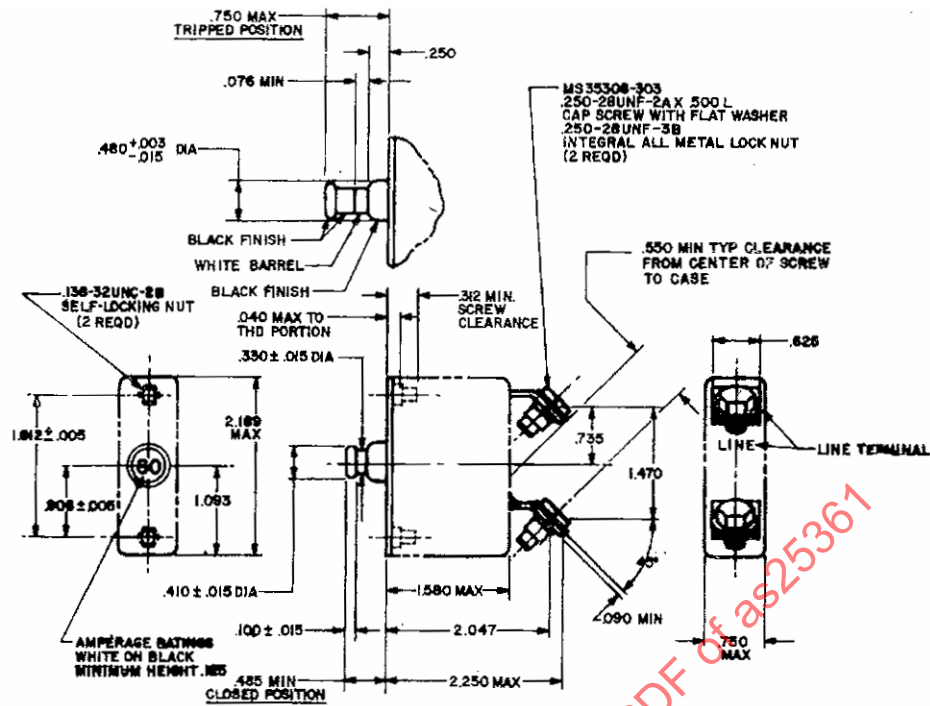


TABLE I

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
				PULLOUT	RESET	RESISTIVE		INDUCTIVE		
						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 $\pm$ 5 VOLTS 380-420 HZ.2/ 28 VOLTS DC SYSTEM, TESTED AT 30 $\pm$ 2 VOLTS.

TABLE II

DETAIL CALIBRATION REQUIREMENTS - TRIP TIME IN SECONDS									
NOMINAL CAPACITY AMPERES (A)	25°C					-40°C		+71°C	
	PERCENT RATED CURRENT					PERCENT RATED CURRENT		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 $\pm 2^\circ\text{C}$.

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