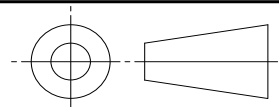


SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

REV. A	RATIONALE THE B COMMITTEE HAS RECOMMENDED STABILIZATION OF THIS DOCUMENT BASED ON NO QPL SOURCES AND NO KNOWN USAGE. ANY EDITORIAL OR TECHNICAL CHANGES NEEDED TO ALIGN THIS DOCUMENT WITH SIMILAR CURRENTLY PUBLISHED DETAIL SHEETS SHALL BE MADE AT SUCH TIME A POTENTIAL SOURCE REQUESTS AUTHORIZATION TO QUALIFY TO THIS DOCUMENT. STABILIZED NOTICE THIS DOCUMENT HAS BEEN DECLARED "STABILIZED" BY THE SAE AE-8B PROTECTIVE AND CONTROL DEVICES COMMITTEE AND WILL NO LONGER BE SUBJECTED TO PERIODIC REVIEWS FOR CURRENCY. USERS ARE RESPONSIBLE FOR VERIFYING REFERENCES AND CONTINUED SUITABILITY OF TECHNICAL REQUIREMENTS. NEWER TECHNOLOGY MAY EXIST.		FEDERAL SUPPLY CLASS 5925
			AS22074
SAENORM.COM : Click to view the full PDF of as22074a			
SAE values your input. To provide feedback on this Technical Report, please visit http://www.sae.org/technical/standards/AS22074		THIRD ANGLE PROJECTION 	
CUSTODIAN: AE-8/AE-8B		PROCUREMENT SPECIFICATION: MIL-C-5809	
		AEROSPACE STANDARD CIRCUIT BREAKER, RECYCLING, TRIP-FREE, PUSH-PULL, 1/2 THRU 5 AMPERE, TYPE I	AS22074
			REV. A

NOTICE

THIS DOCUMENT HAS BEEN TAKEN DIRECTLY FROM U.S. MILITARY SPECIFICATION MS22074C, NOTICE 1 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 MS22074C, NOTICE 1. 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 as22074a

	AEROSPACE STANDARD	AS22074 SHEET 1 OF 4	REV. A
	CIRCUIT BREAKER, RECYCLING, TRIP-FREE, PUSH-PULL, 1/2 THRU 5 AMPERE, TYPE I		

TABLE I

ELECTRICAL AND MECHANICAL CHARACTERISTICS										
DASH NUMBER	NOMINAL CAPACITY AMPERES	VOLTAGE DROP MAX.	WEIGHT MAX. LBS.	OPERATING FORCE MAX. (LBS.)		RESISTIVE		ENDURANCE CYCLES		MECHANICAL NO LOAD
				PULLOUT	RESET	AC	DC	AC	DC	
1/2	.5	1.21	0.1	8	12	5,000	5,000	1/2,500 .6 to .7 LAG P.F.	2/2,500	5,000
1	1	1.20								
1-1/2	1.5	1.10								
2	2	0.95								
2-1/2	2.5	0.85								
3	3	0.81								
4	4	0.72								
5	5	0.65								

1/ 400 CYCLE 115/200 VOLT SYSTEM. TESTED AT 120 5 VOLTS 380-420 HZ.

2/ 28 VOLT DC SYSTEM. TESTED AT 30 2 VOLTS.

TABLE II

DETAIL CALIBRATION REQUIREMENTS - TRIP TIME IN SECONDS										
NOMINAL CAPACITY AMPERES	+25°C PERCENT RATED CURRENT						-40°C PERCENT RATED CURRENT	+71°C PERCENT RATED CURRENT		
	110	138	150	200	400	600		110	138	
0.5	NO TRIP 1 HOUR MAX	TRIP WITHIN 1 HOUR	0.9 TO 10.0	0.4 TO 3.0	0.09 TO 0.4	0.04 TO 0.3	MUST HOLD 1 HOUR MIN	MUST TRIP WITHIN 1 HOUR MAX	MUST HOLD 1 HOUR MIN	MUST TRIP WITHIN 1 HOUR MAX
1										
1.5										
2										
2.5										
3										
4										
5			1.8 TO 10.0	0.8 TO 3.6	0.14 TO 0.75	0.055 TO 0.35				

AMBIENT TEMPERATURE TOLERANCE $\pm 2^\circ\text{C}$.

TABLE III

INTERRUPTING CURRENT (AMPERES) REQUIREMENTS						
NOMINAL CAPACITY AMPERES	TEST DESIGNATION PER MIL-C-5809					
	A	B	C	D	E	F
0.5	1,250	1,250	6,000	6,000	(*)	(*)
1						
1.5						
2						
2.5						
3						
4						
5						

(*) NOT APPLICABLE.



AEROSPACE STANDARD

CIRCUIT BREAKER,
RECYCLING, TRIP-FREE, PUSH-PULL,
1/2 THRU 5 AMPERE, TYPE IAS22074
SHEET 3 OF 4REV.
A