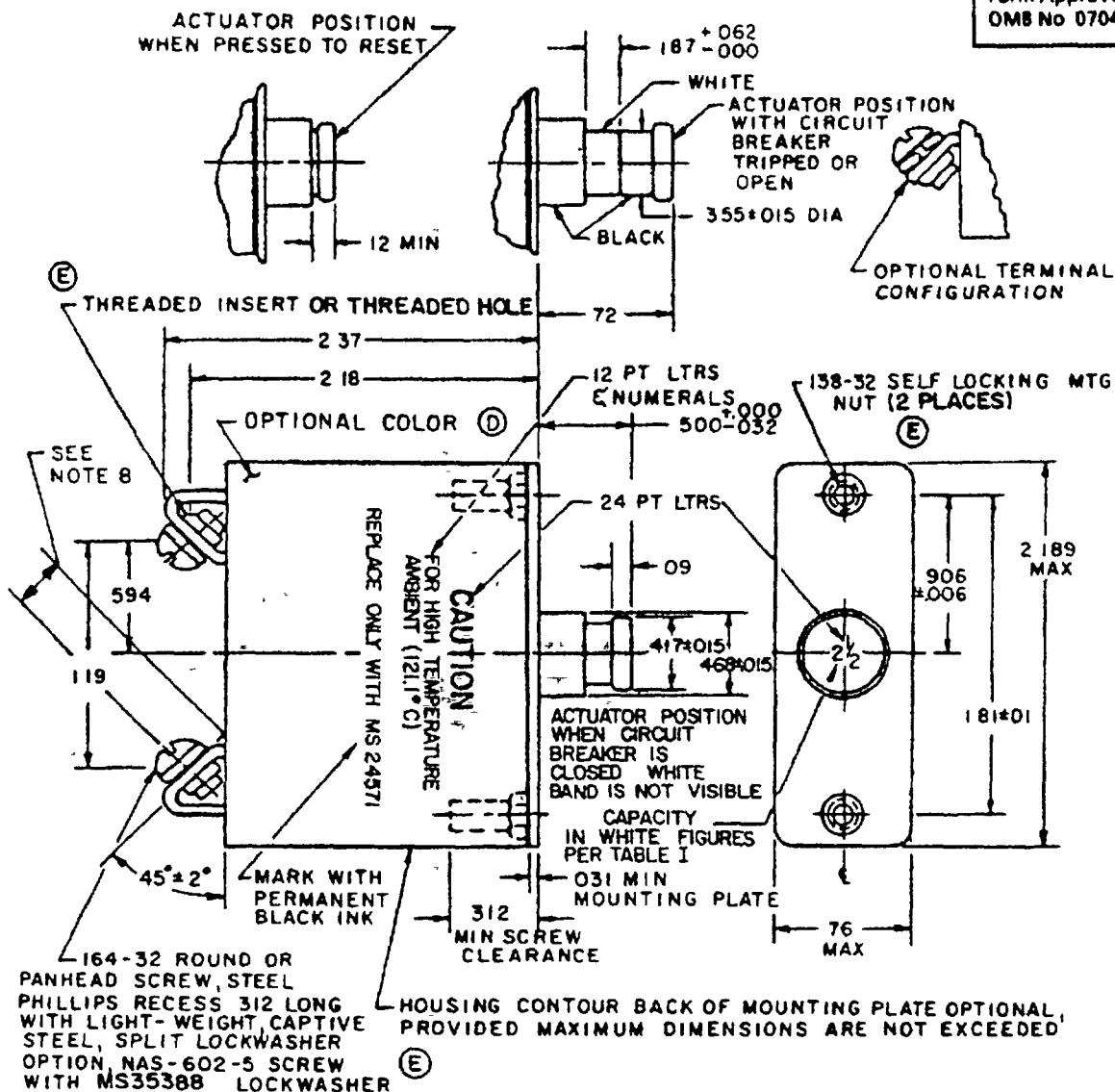


THE REQUIREMENTS FOR ACQUIRING THE PRODUCT(S) DESCRIBED HEREIN SHALL CONSIST OF THIS SPECIFICATION SHEET AND THE ISSUE OF THE FOLLOWING SPECIFICATION LISTED AT ISSUE OF THE SOLICITATION MIL-C-27715

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Inches	mm	Inches	mm
.006	0.15	.355	9.02
.01	0.25	.417	10.59
.015	0.38	.500	12.70
.031	0.79	.594	15.09
.032	0.81	.72	18.29
.09	2.29	.76	19.30
.12	3.05	.906	23.01
.138	3.51	1.19	30.23
.164	4.17	1.81	45.97
.250	6.35	2.18	55.37
.312	7.92	2.189	55.60
		2.37	60.20

(E) DENOTES CHANGES

PREPARING ACTIVITY Air Force - 85 CUSTODIANS ARMY NAVY	MILITARY SPECIFICATION SHEET	SPECIFICATION SHEET NUMBER MS24571D (USAF) 12 MAY 1982
AIR FORCE 85 DLA	CIRCUIT BREAKER, AIRCRAFT TRIP FREE, 2½ TO 50 AMPERES, 121.1°C AMBIENT	SUPERSEDING MS24571D (USAF) 6 OCT 1986
REVIEW USER		AMSC N/A FSC 5925
PROJECT NUMBER 5925-F143		
DISTRIBUTION STATEMENT A Approved for public release, distribution is unlimited.		Page 1 of 3

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NOTES

- 1 Dimensions are in inches
- 2 Metric equivalents are given for general information only
- 3 Unless otherwise specified, tolerances are $\pm .005$ (0.13 mm) for three place decimals and $\pm .01$ (0.3 mm) for two place decimals Angles $\pm 1^\circ$
- 4 In the event of a conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence
- 5 Referenced Government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation form a part of this standard to the extent specified herein
- 6 Military part number
MS24571-2V
MS number dash number
(see table i and note 7)
- 7 For dash numbers ending with "V", the vibration test methods shall be as follows
Operating - MIL-STD-202, Method 204, Condition C.
Nonoperating - MIL-STD-202, Method 204, Condition B
- 8 .250 Min. Typ clearance from c_L of screw to case.
- 9 The terminals shall not be moveable with respect to case
- 10 The terminals shall not be identified as to "line" or "load".

TABLE I Electrical and mechanical characteristics

Dash number	Capacity amperes	Voltage drop Max	Weight Max lbs	Operating force				Endurance cycles			Mech no load
				Pull out		Reset		Resistive 1/	Inductive 1/		
				Max	Min	Max	Min				
-2	-2V	2 1/2	0.6	0.2	8	1.5	12	4	5,000	5,000	10,000
-5	-5V	5	0.4	"	"	"	"	"	0.95 \pm .05	0.75 Max	"
-7	-7V	7 1/2	0.3	"	"	"	"	"	PF	Lag PF	"
-10	-10V	10	0.25	"	"	"	"	"	"	"	"
-15	-15V	15	"	"	"	"	"	"	"	"	"
-20	-20V	20	"	"	"	"	"	"	"	"	"
-25	-25V	25	"	"	"	"	"	"	"	"	"
-35	-35V	35	"	"	"	"	"	"	"	"	"
-50	-50V	50	"	"	"	"	"	"	"	"	"

1/ 400 Hz 115/200 volt system, tested at 120 \pm 5 volts 380- 420 Hz.

TABLE II Detail calibration requirements

Dash number	Tripping time from -53.9 C to 93.3 C (time in seconds)							
	Percent rated current							
	200		400		1000		3000	
	Min	Max	Min	Max	Min	Max	Min	Max
-2 -2V	12	32	2.3	6.5	.32	1.1	.04	.155
-5 -5V	14	36	2.5	6.5	.45	1.1	.06	.13
-7 -7V	16	40	2.5	7.0	.34	1.1	.04	.12
-10 -10V	18	42	2.7	7.75	.45	1.2	.05	.125
-15 -15V	20	45	2.7	8.0	.36	1.2	.04	.13
-20 -20V	22	48	2.8	8.0	.37	1.2	.05	.12
-25 -25V	24	50	2.9	9.5	.38	1.2	.05	.12
-35 -35V	26	53	3.0	8.0	.39	1.2	.05	.12
-50 -50V	28	55	3.1	10.0	.40	1.4		

PREPARING ACTIVITY Air Force - 85 CUSTODIANS ARMY NAVY AIR FORCE 25 DEL-	MILITARY SPECIFICATION SHEET TITLE CIRCUIT BREAKER, AIRCRAFT, TRIP FREE, 2 1/2 TO 50 AMPERES, 240V AC, 50/60 HZ	SPECIFICATION SHEET NUMBER MS24571 (J54F) SUPERSEDING AMSC N/A FSC 5925
USER PROJECT NUMBER 5925-F143	DISTRIBUTION STATEMENT A Approved for public release; distribution is unlimited	
		Page 2 of 3

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TABLE III. DETAIL RUPTURE CURRENT PERFORMANCE.

TEST CONDITION	SYSTEM	VOLTAGE BEFORE FAULT	CALIBRATED FAULT CURRENT (AMPERES)	TRANSIENT VOLTAGE AFTER FAULT CURRENT INTERRUPTION	OPEN CIRCUIT VOLTAGE
L-N	400 CYCLE 115/200 VOLT	120 ± 5	6,000 AMPERES DURING FIRST CYCLE OF FAULT CURRENT DECREASING TO 3,600 AMPERES WITHIN .05 SECOND AFTER INITIATION		120 ± 5
L-L	400 CYCLE 115/200 VOLT	200 ± 8	4,200 AMPERE DURING FIRST CYCLE OF FAULT CURRENT DECREASING TO 2,500 AMPERES WITHIN .05 SECOND AFTER INITIATION		200 ± 8
	28 VOLT dc	30 ± 2	6,000 AMPERES IN .01 TO .03 SECOND AFTER INITIATION	28 VOLTS WITHIN .002 SECOND AFTER INTERRUPTION 50 VOLTS MAX	30 ± 2

TABLE V. COORDINATION TRIP TIME.TABLE IV. COORDINATION TEST PAIRS.

LOWER RATING (AMPERES)	HIGHER RATING (AMPERES)
2 1/2	5
5	10
7 1/2	15
10	20
15	35

RATING (AMPERES)	TRIP TIME (SECONDS) AT 2,000% RATED CURRENT MIN
2 1/2	
5	.124
7 1/2	.088
10	.112
15	.089
20	.103
25	.102
35	.109
50	

NOMINAL VOLTAGE RATING

28 V dc or
115 V line to neutral or
200 V line to line 400 Hz

all Departments and Agencies

THIS SPECIFICATION IS APPROVED FOR USE BY THE Department of Defense.

PREPARING ACTIVITY CUSTODIANS ARMY AIR FORCE 85	NAVY DLA	MILITARY SPECIFICATION SHEET CIRCUIT BREAKER, AIRCRAFT, TRIP FREE, 2 1/2 TO 50 AMPERES, 125 FT MIN	SPECIFICATION SHEET NUMBER MS24571C (USAF)
REVIEW USER PROJECT NUMBER 5925-F143		125 FT MIN	SUPERSEDING AMSC N/A FSC 5925
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