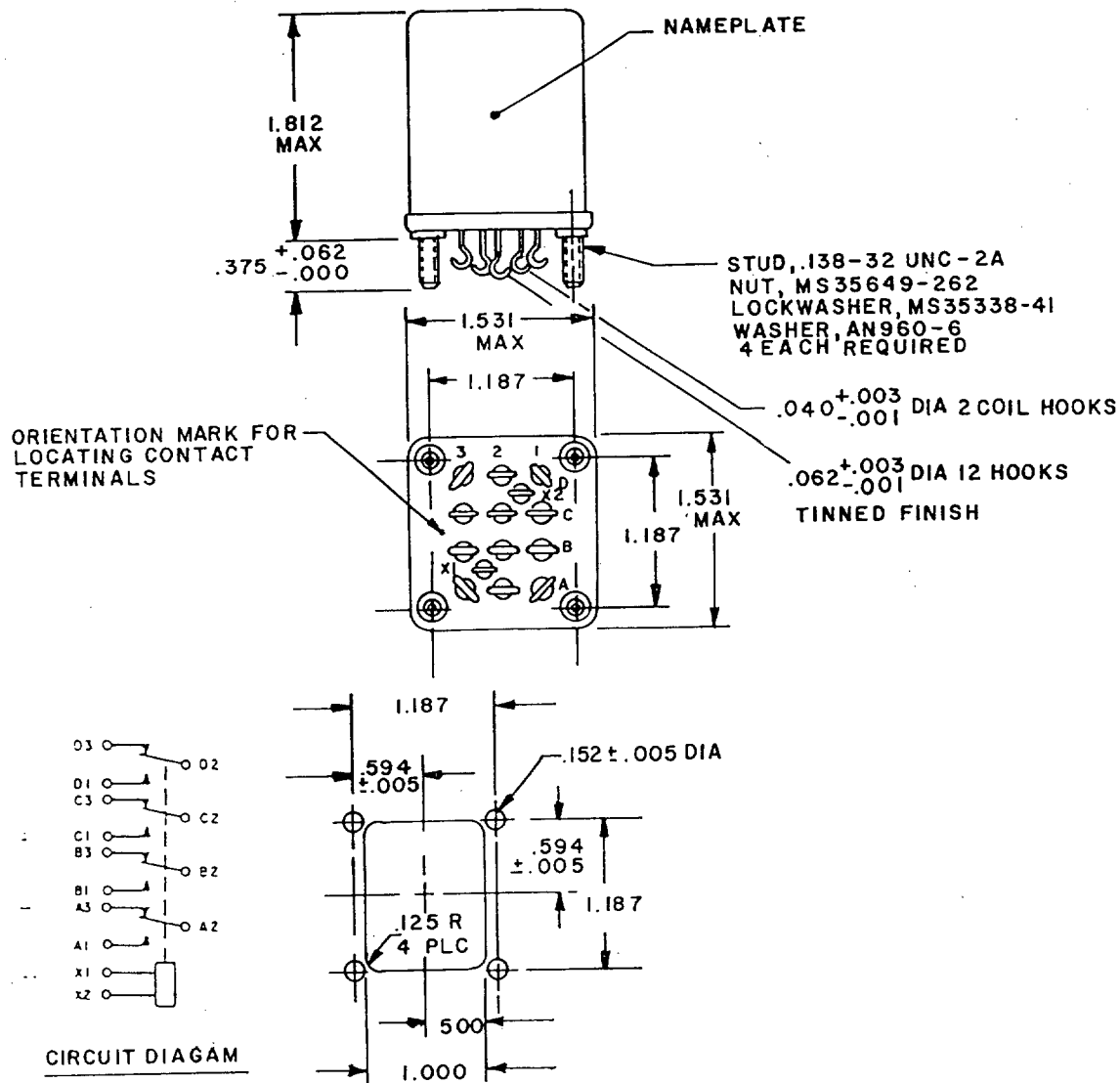


FED. SUP CLASS
5945User activities: Army -
Navy -
Air Force -Review activities: Army - EC
Navy -
Air Force - 11, 99

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P.A USAF - 85 Other Cust Navy - AS	International interest	TITLE RELAYS, ELECTROMAGNETIC, 10 AMPERES, 4 PDT, TYPE I, SOLDER HOOK HERMETICALLY SEALED	MILITARY STANDARD
			MS25271
Procurement Specification MIL-R-6106		SUPERSEDES:	PAGE 1 OF 5

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1 MAY 73
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Inches	mm	Inches	mm
.001	0.03	.152	3.86
.003	0.08	.375	9.53
.005	0.13	.500	12.70
.010	0.25	.594	15.09
.040	1.02	1.000	25.40
.062	1.57	1.187	30.15
.125	3.18	1.531	38.89
.138	3.51	1.812	46.02

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ± 0.010 (0.25 mm).
4. Terminal numbers need not appear on relay headers provided there is affixed to the relay a suitable legible circuit diagram that permanently and positively identifies each terminal location specified herein.
5. In the event of conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence.
6. 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.

TABLE I. Dash numbers and characteristics.

Dash number	Type	Coil	Terminal type	Mounting	Max weight in pounds
MS25271-					
D1	I	dc	Solder hook	Stud	.45
A1	I	ac	Solder hook	Stud	.45

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TABLE II. Operating characteristics.

MS part no.	Coil data										Time (milliseconds max)									
	Coil	Nominal		Max	Max pick-up voltage				Drop-out voltage	Hold voltage	Operate	Release	Contact bounce							
		Volts 1/	Freq. Hz		Res Ω $\pm 10\%$	Volts	Amperes	Normal 2/					High temp test	Cont current test	Main	Aux	NO	NC	NO	NC
MS25271-	D1	X1, X2	28	dc	100	29	0.350	18	19.5	22.5	1.5	7.0	20	20	2	2				
A1	X1, X2	115	400 5/	N/A	122	0.07 J	90	95	103	5.0	30	25	50	2	2					

1/ CAUTION: Use of any coil voltage less than nominal coil voltage will compromise the operation of the relay.

2/ Over the temperature range.

3/ With nominal coil voltage.

4/ From nominal coil voltage.

5/ MS25271-A1 may be used on 60 Hz if maximum ambient temperature is $+85^{\circ}\text{C}$ (coil current shall be 0.077 ampere maximum).

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TABLE III. Rated contact load (amperes per pole) (case grounded).

Type of load	Life operating cycles X 10 ³	28 V dc		115 V ac, 1 phase				115/200 V ac, 3 phase 1/				See appropriate notes		
		Main		Aux		Main		Aux		Main			Aux	
		NO	NC	NO	NC	400 Hz	60 Hz	400 Hz	60 Hz	400 Hz	60 Hz		400 Hz	60 Hz
Resistive	100	10	10			10	6			10	6			
Inductive	100													
Inductive	20	6	6			6	4			6	4			
Motor	100	4	4			4	3			4	3			
Lamp	100	2	2			2	1.5			2	1.5			
Transfer load														2/
Mechanical life reduced current	400	2.5	2.5			2.5	2			2.5	2			
Intnd current		Applicable per specification												

1/ Absence of value indicates relay is not rated for 3-phase applications.
2/ Transfer load indicates relay suitable for transfer between unsynchronized ac power supplies at rating indicated.

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Environmental characteristics

Temperature range -70°C to +125°C
 Max altitude rating 80,000 ft
 Shock G-level 50 G
 Duration 11 ms
 Max duration contact opening 10 μs
 Vibration - sinusoidal 10 G
 G-level 10 G
 Frequency range 5 - 1,500 Hz
 Vibration - random
 Applicable specification N/A
 Power spectral density N/A
 RMS G min N/A
 Frequency range N/A
 Curve N/A
 High shock N/A
 Acceleration 15 G

Electrical characteristics

Insulation resistance, initial 100 megohms
 After life or environmental tests 50 megohms
 Dielectric strength (sea level)
 Coil to case Initial After life tests
 1,000 V rms 1,000 V rms
 Aux contacts
 All other points 1,500 V rms 1,125 V rms
 Dielectric strength (altitude)
 Coil to case 80,000 ft
 250 V rms
 Aux contacts
 All other points 350 V rms
 Max contact drop initial 0.150 volt
 After life test 0.175 volt
 Overload current 20 amperes
 Rupture current 25 amperes
 Duty rating Continuous
 RFI specification MIL-STD-461
 (Applicable to coil circuits of ac operated relays)

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