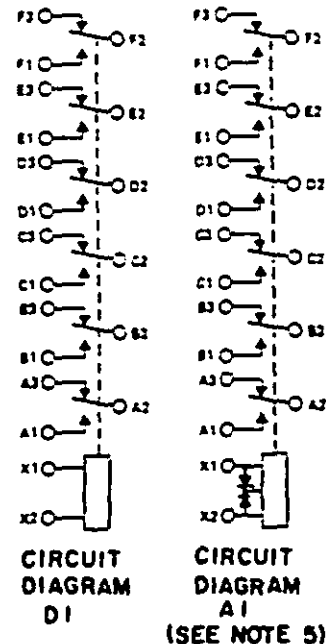
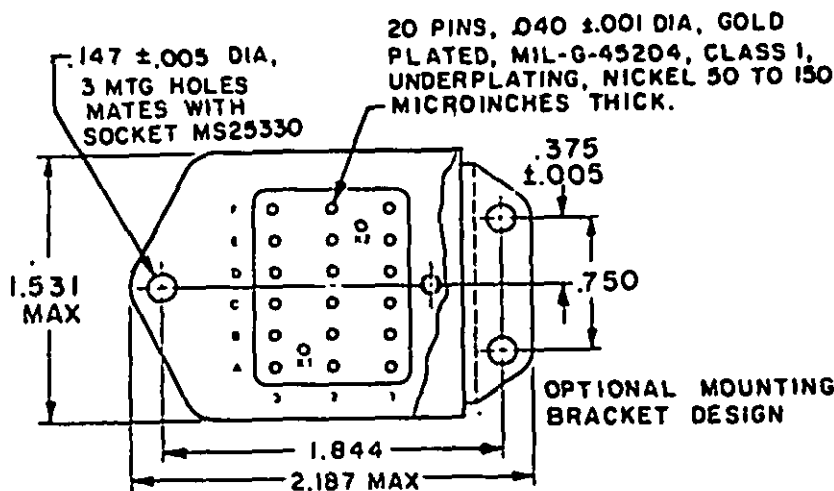
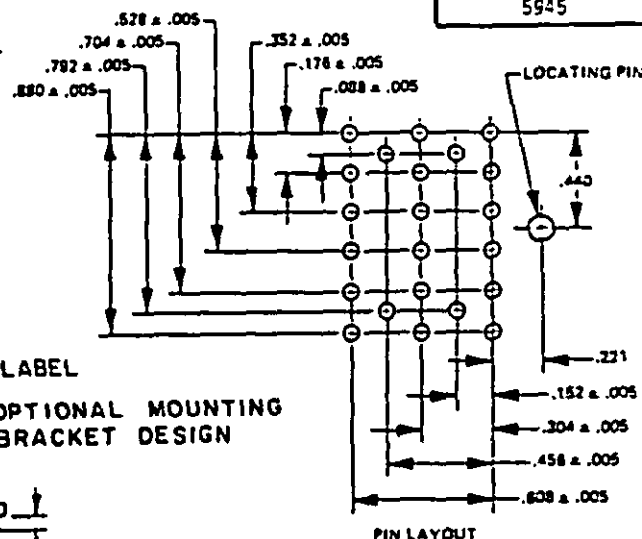
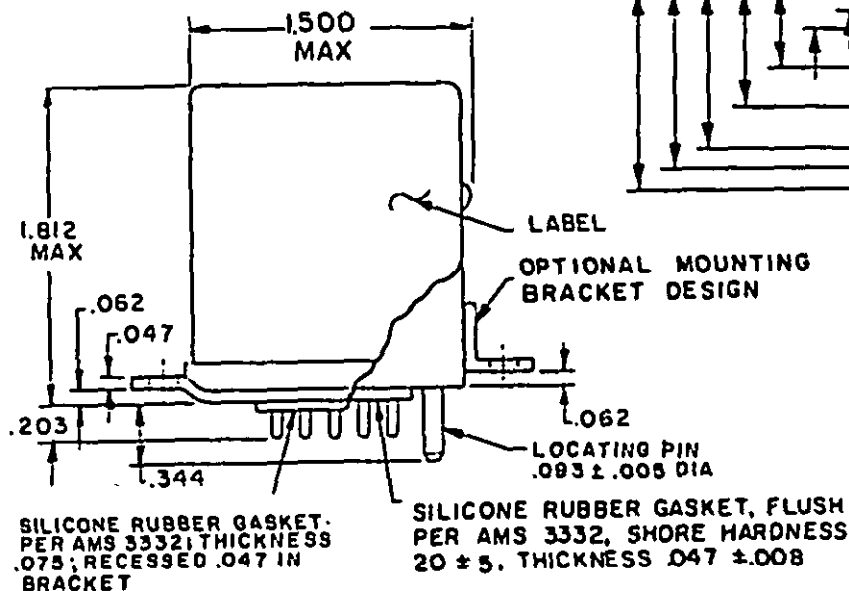


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Air Force -Review activities: Army - EC
Navy -
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Ⓛ ENTIRE STANDARD REVISED

P.A. AF - 85 Other Cust Navy - AS	International Intersect	TITLE RELAYS, ELECTROMAGNETIC, 6PDT, 5 AMPERES, TYPE 1, SOCKET MOUNTED, HERMETICALLY SEALED	MILITARY STANDARD MS25329
Procurement Specification MIL-R-6106	SUPERSEDES:		PAGE 1 OF 5

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DISTRIBUTION STATEMENT A.

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Inches	mm	Inches	mm	Inches	mm	Inches	mm
.001	0.03	.093	2.36	.344	8.74	.750	19.05
.005	0.13	.147	3.73	.352	8.94	.792	20.12
.008	0.20	.152	3.86	.375	9.53	.880	22.35
.040	1.02	.176	4.47	.458	11.63	1.500	38.10
.047	1.19	.203	5.16	.526	13.41	1.531	38.89
.062	1.57	.221	5.61	.608	15.44	1.812	46.02
.088	2.24	.304	7.72	.704	17.88	1.644	46.84
						2.187	55.55

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are $\pm .010$ (0.25 mm).
4. Terminal numbers shall not appear on relay headers. There shall be affixed to the relay a suitable legible circuit diagram that positively and permanently identifies each terminal location specified herein.
5. The use of diodes on ac relays is optional. Actual application must be shown on label.
6. 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.
7. Referenced Government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DDISS) specified in the solicitation form a part of this standard to the extent specified herein.
8. Pins to be perpendicular to header surface within one degree.

TABLE I. Dash numbers and characteristics.

Dash number	Type	Coil	Terminal type	Max weight in pounds
MS25329-				
D1	I	dc	Plug in	0.4
A1	I	ac	Plug in	0.4

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Procurement Specification MIL-R-6106		SUPERSEDES:	PAGE 2 OF 5

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Procurement Specification
MIL-R-6106

International
Interest

TITLE

RELAYS, ELECTROMAGNETIC, 6PDT,
5 AMPERES, TYPE 1, SOCKET MOUNTED,
HERMETICALLY SEALED

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TABLE 11. Operating characteristics.

MS part no. MS25329-	Coil data										Time - (milliseconds max (max))					
	Coil	Nominal		Max		Max pick-up voltage			Drop-out voltage 2/	Hold voltage 2/	Operate 3/	Release 4/	Bounce			
		Volts 1/	Freq. Hz	Res Ω	Volts	Amperes	Normal 2/	High temp test					Main	Aux		
								Cont							current test	
D1	X1, X2	28	dc		29	0.18	18	19.8	22.5	1.5	7.0	25	20	2	2	
A1	X1, X2	115	400 5/		122	0.04	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/ MS25329-A1 may be used on 60 Hz if maximum ambient temperature is limited to 85°C, maximum current will be 0.044 ampere.

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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	Aux	
		NO	NC	NO	NC	400 Hz	60 Hz	400 Hz	60 Hz
Resistive	100	5	5	5	4				
Inductive	100								
Inductive	20	3	3	3	2				
Motor	100	1.5	1.5	1.5	1				
Lamp	100	0.8	0.8	0.8	0.6				
Transfer load									2/
Mechanical life reduced current	400	1.25	1.25	1.25	1				
Intend 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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RELAYS, ELECTROMAGNETIC, 6PDT,
5 AMPERES, TYPE 1, SOCKET MOUNTED,
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Environmental characteristics

Temperature range	-70°C to +125°C
Max altitude rating	80,000 ft
Shock G-level	50 g's
Duration	11 ms
Max duration contact opening	10 us
Vibration - Sinusoidal	
G-level	10 g's
Frequency range	5 - 1,500 Hz
Non operate:	
G-level	15 g's
Frequency range	70 - 2,000 Hz
Acceleration	15 g's

Quality conformance inspection

Performance of groups B and C tests are not applicable.

Electrical characteristics

Insulation resistance, initial	100 megohms
After life or environmental tests	50 megohms
Dielectric strength (sea level)	
Initial	After life tests
Coil to case	1,000 V rms 1,000 V rms
Aux contacts	
All other points	1,000 V rms 1,000 V rms
Dielectric strength (altitude, mounted in mating socket)	
Coil to case	80,000 ft
Aux contacts	500 V rms
All other points	500 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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			MS25329
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