

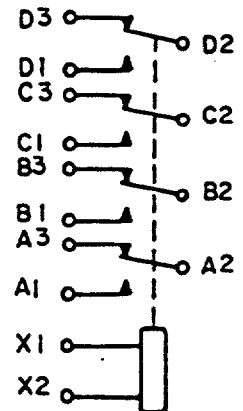
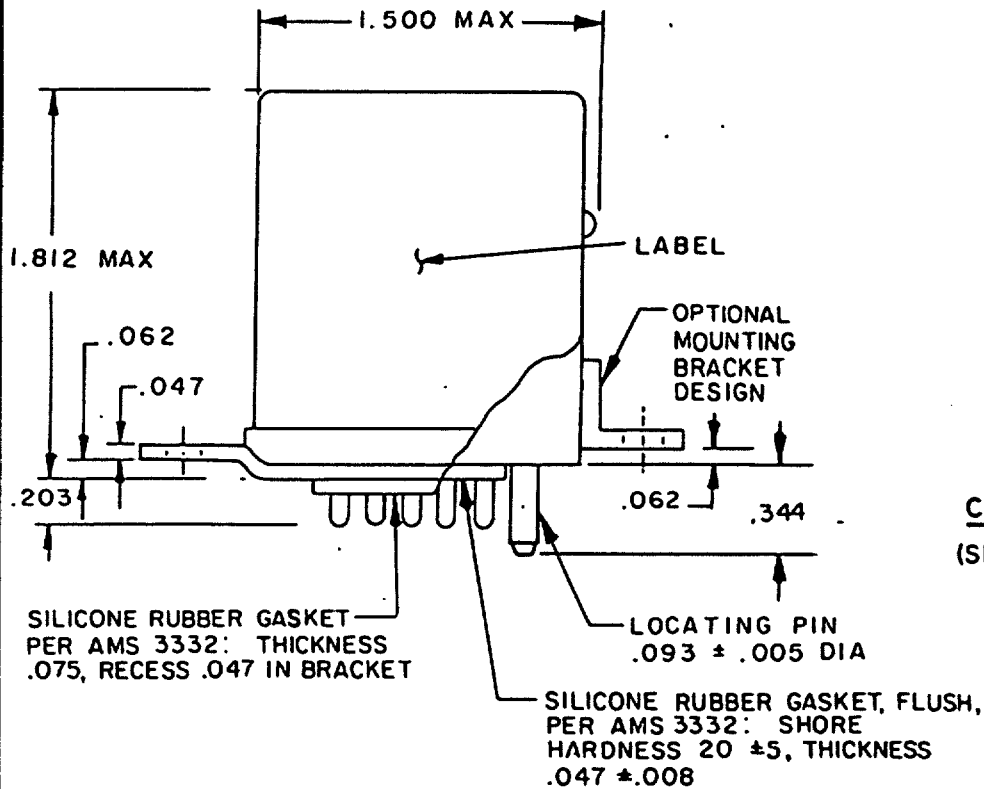
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INACTIVE FOR NEW DESIGN AFTER 5 JUN 87
NO SUPERSEDING STANDARD
(FOR NEW DESIGN USE MIL-R-6106/28)

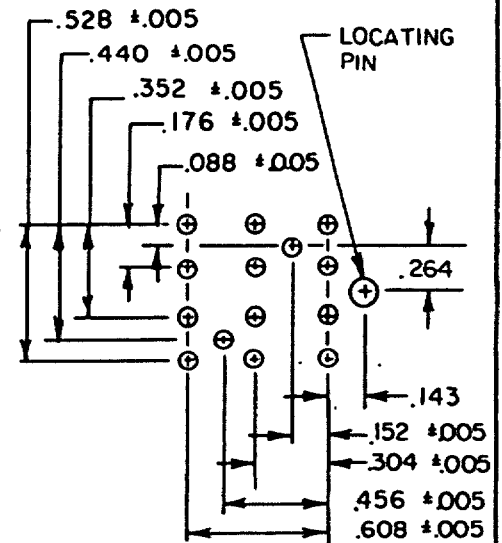
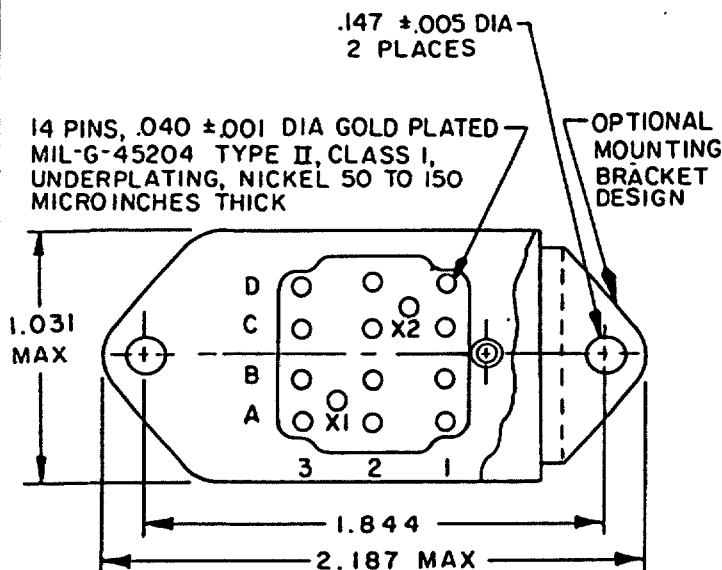
User activities: Army -
Navy -
Air Force -

Review activities: Army -
Navy - EC
Air Force -

11, 99



CIRCUIT DIAGRAM
(SEE NOTES 4 AND 5)



PIN LAYOUT

(N) denotes changes

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

P.A USAF - 85 Other Cust Navy - AS	International Interest	TITLE RELAYS, ELECTROMAGNETIC, 5 AMPERES, 4 PDT, TYPE I, SOCKET MOUNTED, HERMETICALLY SEALED	MILITARY STANDARD MS 25325
Procurement Specification MIL-R-6106	SUPERSEDES:	PAGE 1 OF 5	

DD FORM 672
1 MAY 73

AMSC N/A

(Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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APPROVED 12 May 1958 REVISED (N) 20 Jan 1989

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Inches	mm	Inches	mm
.001	0.03	.203	5.16
.005	0.13	.264	6.71
.008	0.20	.304	7.72
.010	0.25	.344	8.74
.040	1.02	.352	8.94
.047	1.19	.440	11.18
.062	1.57	.456	11.58
.075	1.91	.528	13.41
.088	2.24	.608	15.44
.093	2.36	1.031	26.19
.143	3.63	1.500	38.10
.147	3.73	1.812	46.02
.152	3.86	1.844	46.84
.176	4.47	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 ± 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. The use of diodes on ac relays is optional. Actual application must be shown on label.
6. Pins to be perpendicular to header surface within one degree.
7. In the event of conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence.
8. 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	Max weight in pounds
MS25325-				
D1	I	dc	Plug in	0.29
A1	I	ac	Plug in	0.30
A2	I	ac	Plug in	0.30

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(N) TABLE II. Operating characteristics.

IMS part no. MS25325-	Coil data											Time milliseconds max				
	Coil	Nominal		Max		Max pick-up voltage			Hold voltage 2/ 2/	Drop- out voltage 2/ 2/	Operate 3/ 3/	Release 4/ 4/	Contact bounce			
		Volts 1/ 1/	Freq. Hz	Res Ω	Volts	Amperes	Normal 2/ 2/	High temp test					Cont current test	Main	Aux	
																NO
D1	X1, X2	28	DC	N/A	29	0.13	18	19.8	22.5	7.0	1.5	20	2	2		
A1	X1, X2	115	400	N/A	122	0.06	90	95	100	35	5.0	25	50	2	2	
A2	X1, X2	115	50/60 400	N/A	122	0.07	90	95	103	35	5	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.

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International
Interest

TITLE

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

MILITARY STANDARD

MS25325

Procurement Specification
MIL-R-6106

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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	
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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Procurement Specification MIL-R-6106		SUPERSEDES:	MS25325 PAGE 4 OF 5

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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 μs
G-level 10 G
Frequency range 5 - 1500 Hz
Acceleration 15 G

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)
Coil to case 80,000 ft
500 V rms
Aux contacts
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
RFL specification MIL-STD-461
(Applicable to coil circuits of ac operated relays)

Quality conformance inspection

Performance of groups B and C tests are not applicable.

(N) Group A acceptance reports shall be submitted to the preparing activity on a yearly basis in order to retain qualification for this military standard sheet.

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