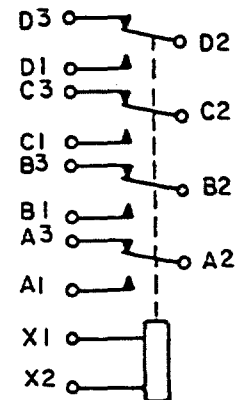
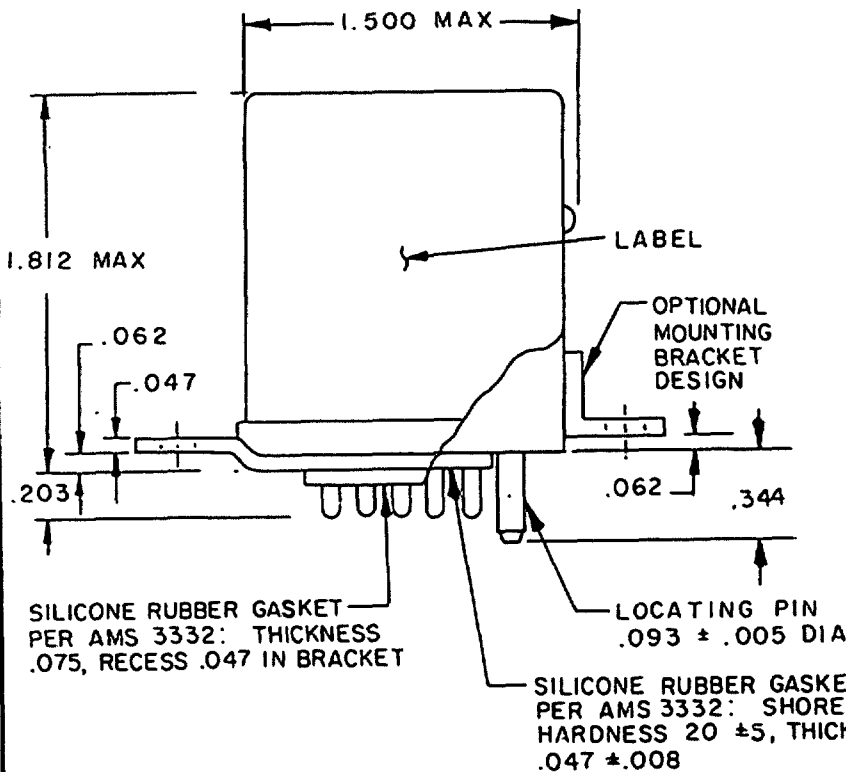


INACTIVE FOR NEW DESIGN AFTER 5 JUN 87
NO SUPERSEDING STANDARD
(FOR NEW DESIGN USE MIL-R-6106/28)

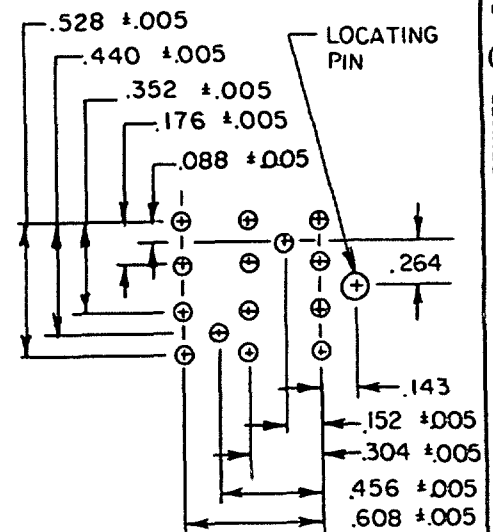
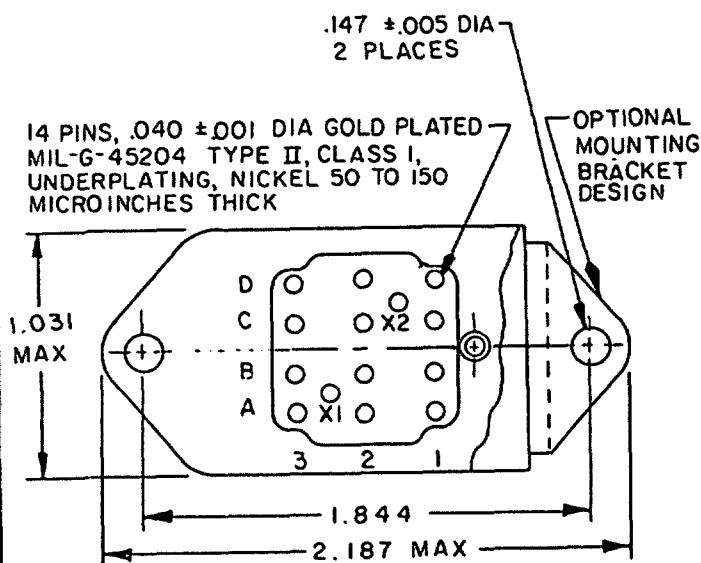
User activities: Army -
Navy -
Air Force -

Review activities: Army -
Navy - EC
Air Force - 11, 99

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.



CIRCUIT DIAGRAM
(SEE NOTES 4 AND 5)



PIN LAYOUT

ENTIRE STANDARD REVISED

P.A USAF - 85 Other Cust Navy - AS	International Interest	TITLE RELAYS, ELECTROMAGNETIC, 5 AMPERES, 4 PDT, TYPE 1, 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

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APPROVED	12 May 1958	REVISED (M)	5 JUN 87
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Army - EC
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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

ENTIRE STANDARD REVISED

REVISED (M)

12 May 1958

APPROVED

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
Procurement Specification MIL-R-6106		SUPERSEDES:	MS25325
			PAGE 2 OF 5

User activities: Army -
Navy -
Air Force -Review activities: Army - EC
Navy -
Air Force - 11, 99

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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 $\frac{2}{2}$	Hold voltage $\frac{2}{2}$	Operate $\frac{3}{3}$	Release $\frac{4}{4}$	Contact bounce						
			Volts $\frac{1}{1}$	Freq. Hz	Res n	Volts	Amperes	Normal $\frac{2}{2}$	High temp test					Cont current test	Main	Aux	NO	INC	NO	INC
MS25325-																				
D1		X1, X2	28	DC	N/A	29	0.13	18	19.8	22.5	1.5	7.0	20	20	2	2				
A1		X1, X2	115	400	N/A	122	0.06	90	95	100	5.0	35	25	50	2	2				
A2		X1, X2	115	50/60/400	N/A	122	0.07	90	95	103	5	35	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.

P.A
USAF - 85
Other Cust
Navy - ASInteractional
Interest

TITLE

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

MILITARY STANDARD

MS25325

Procurement Specification
MIL-R-6106

SUPERSEDES:

PAGE 3 OF 5

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Review activities: Army - Navy - EC
Air Force - 11, 99

User activities: Army - Navy - Air Force -

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				
Intmd 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.

FED. SUP CLASS
5945

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P.A.
USAF - 85
Other Cust
Navy - AS

International
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TITLE

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

MILITARY STANDARD

MS25325

Procurement Specification
MIL-R-6106

SUPERSEDES:

PAGE 4 OF 5

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Review activities: Army -
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User activities: Army -
Navy -
Air Force -

FED. SUP CLASS
5945

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

Max contact drop initial	0.150 volt
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After life test

Overload current	0.175 volt
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Rupture current	20 amperes
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Duty rating	25 amperes
-------------	------------

RFI specification	Continuous
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(Applicable to coil circuits of ac operated relays)

Quality conformance inspection

Performance of groups B and C tests are not applicable.

P.A
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Other Cust
Navy - AS

International
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4 PDT, TYPE I, SOCKET MOUNTED,
HERMETICALLY SEALED

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MIL-R-6106

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PAGE 5 OF 5

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