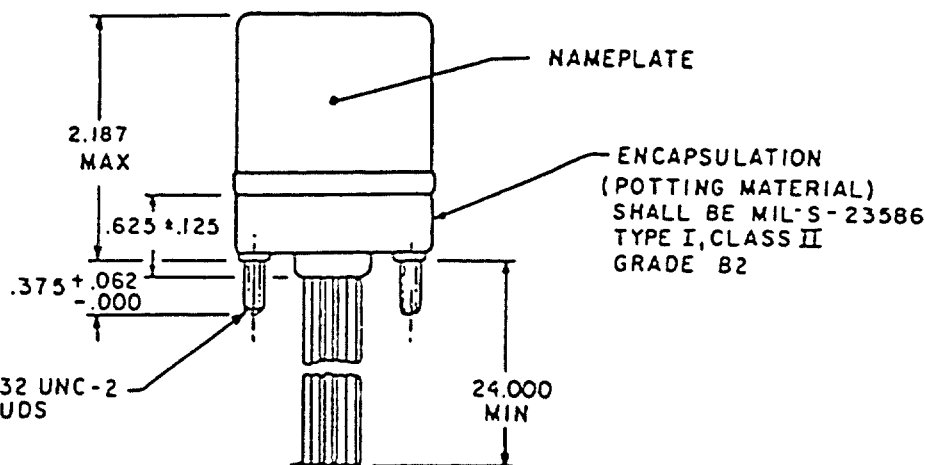


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INACTIVE FOR NEW DESIGN AFTER 5 JUN 87
NO SUPERSEDING STANDARD
(FOR NEW DESIGN USE MIL-R-6106/28)

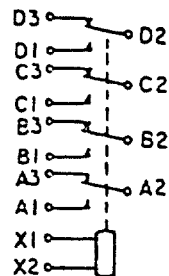
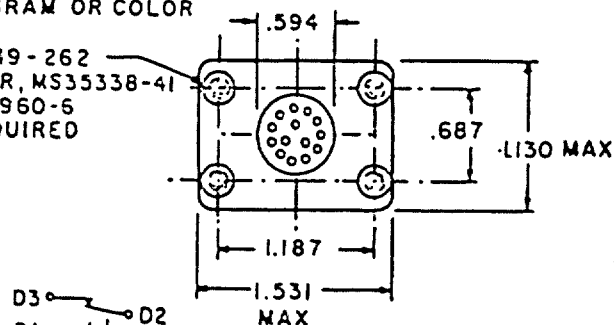
User activities: Army -
Navy -
Air Force -Review activities: Army - EC
Navy -
Air Force - 11, 99

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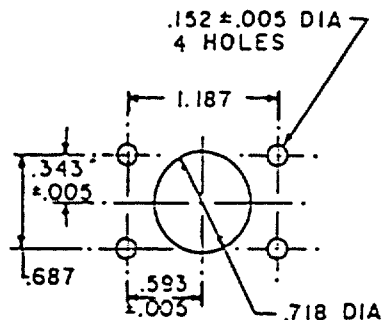


MS17411 OR MS21985 LEADWIRE
22 GA PRINTED AT 6 INCH INTERVALS
PER CIRCUIT DIAGRAM OR COLOR
CODE PER SPEC

NUT, MS35649-262
LOCKWASHER, MS35338-41
WASHER, AN960-6
4 EACH REQUIRED



CIRCUIT
DI, AI
(SEE NOTE 4)



MOUNTING HOLE LAYOUT

(J) denotes changes

P.A USAF - 85 Other Cust Navy - AS	International Interest	TITLE RELAYS, ELECTROMAGNETIC, 5 AMPERES, 4 PDT, TYPE I, POTTED LEAD, HERMETICALLY SEALED	MILITARY STANDARD
Procurement Specification MIL-R-6106	SUPERSEDES:		MS25268
			PAGE 1 OF 5

DD FORM 1 MAY 73 672
AMSC N/A

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5945-0792-01

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

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Inches	mm
.005	0.13
.010	0.25
.062	1.57
.125	3.18
.152	3.86
.343	8.71
.375	9.53
.593	15.06
.594	15.09
.625	15.88
.687	17.45
.718	18.24
1.130	28.70
1.187	30.15
1.531	38.89
2.187	55.55
24.000	609.60

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ± 0.005 (0.13 mm).
4. The use of diodes on ac relays is optional. Actual application must be shown on label.
5. 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.
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
MS25268-					
D1	I	dc	Wire lead	Stud	.57
A1	I	ac	Wire lead	Stud	.57

P.A. USAF - 85 Other Cust Navy - AS	International interest	TITLE RELAYS, ELECTROMAGNETIC, 5 AMPERES, 4 PDT, TYPE I, POTTED LEAD, HERMETICALLY SEALED	MILITARY STANDARD MS25268
Procurement Specification MIL-R-6106		SUPERSEDES:	PAGE 2 OF 5

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J TABLE II. Operating characteristics.

MS part no.	Coil data										Time (milliseconds max)			
	Coil	Nominal		Max		Max pick-up voltage			Hold voltage $\frac{2}{}$	Drop-out voltage $\frac{2}{}$	Operate $\frac{3}{}$	Release $\frac{4}{}$	Contact bounce	
		Volts $\frac{1}{}$	Freq. Hz	Res Ω	Volts	Amperes	Normal $\frac{2}{}$	High temp test					Cont current test	Main
MS25268-01	X1, X2	23	dc	N/A	29	0.15	18	19.8	22.5	7.0	1.5	20	2	2
A1	X1, X2	115	1400	N/A	122	0.05	90	95	103	30	5.0	25	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
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Navy - AS

International
Interest

TITLE

RELAYS, ELECTROMAGNETIC, 5 AMPERES,
4 PDT, TYPE I, POTTED LEAD,
HERMETICALLY SEALED

MILITARY STANDARD

MS25268

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		
		NO	NC	NO	NC	400 Hz	60 Hz	400 Hz	60 Hz	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							
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.

P.A
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Other Cust
Navy - AS

International
Interest

TITLE
RELAYS, ELECTROMAGNETIC, 5 AMPERES,
4-PDT, TYPE 1, POTTED LEAD,
HERMETICALLY SEALED

MILITARY STANDARD

MS25268

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Environmental characteristics

Temperature range -70°C to +125°C
Max altitude rating 30,000 ft
Shock G-level 50 G
Duration 11 ms
Max duration contact opening 10 μs

Vibration - sinusoidal
G-level 10 G
Frequency range 5-1500 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)
Initial
Coil to case 1,050 V rms
After life tests 1,000 V rms

Aux contacts -

All other points 1,050 V rms 1,000 V rms

Dielectric strength (altitude)
90,000 ft
Coil to case 1,000 V rms

Aux contacts -

All other points 1,000 V rms

Max contact drop initial
After life test 0.150 volt
Overload current 0.175 volt
Rupture current 20 amperes
Duty rating 25 amperes
RFI specification Continuous
(Applicable to coil circuits of ac operated relays) MIL-STD-461

Quality conformance inspection

Performance of groups B and C tests are not applicable.

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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