

INCH-POUND

MS25268K
 27 November 2003
 SUPERSEDING
 MS25268J
 20 Jan 1989

DETAIL SPECIFICATION SHEET

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

INACTIVE FOR NEW DESIGN AFTER 5 JUNE 1987.
 NO SUPERSEDING SPECIFICATION. FOR NEW
 DESIGN USE MIL-PRF-83536/5 OR MIL-PRF-83536/6.

This specification is approved for use by all Departments
 and Agencies of the Department of Defense.

The requirements for acquiring the relay described herein shall
 consist of this specification and the latest issue of MIL-PRF-6106.

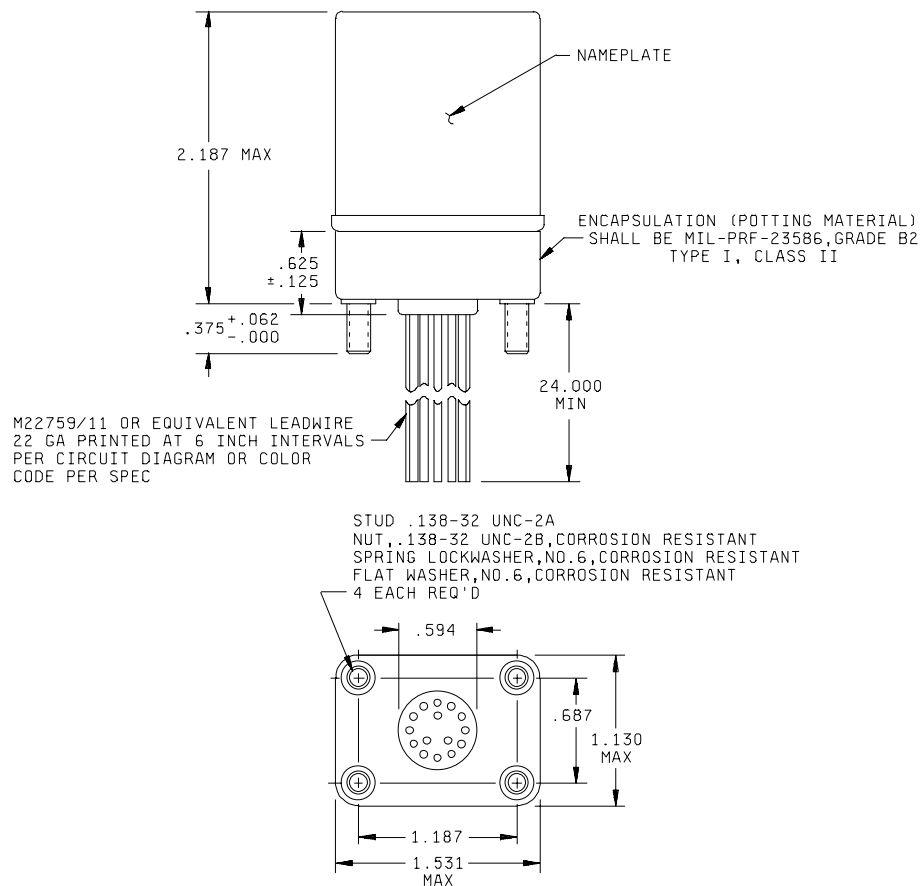
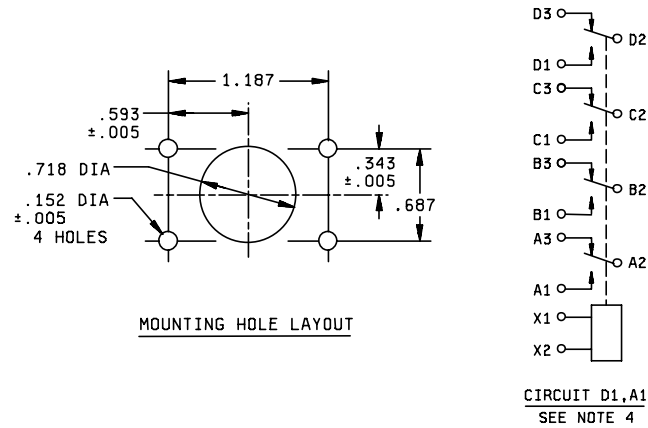


FIGURE 1. Dimensions and configurations.

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

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .005$ (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 conflict between the text of this specification and the references cited herein, the text of this specification 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.

FIGURE 1. Dimensions and configurations - Continued.TABLE I. Dash numbers and characteristics.

Dash number MS25268-	Type	Coil	Terminal type	Mounting	Max weight in pounds
D1	I	dc	Wire lead	Stud	.57
A1	I	ac	Wire lead	Stud	.57

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TABLE II. Operating characteristics.

PIN MS25268-	Coil data											Time - milliseconds max					
	Coil	Rated			Max		1/ Max pick-up voltage			Hold vol- tage 2/	Drop out vol- tage 2/	Op- erate 3/	Rel- ease 4/	Contact Bounce			
		Volts 1/	Freq Hz	Res Ω	Volts	Amp	Nor- mal 2/	High temp test	Cont cur- rent test					Main		Aux	
														NO	NC	NO	NC
D1	X1, X2	28	dc	N/A	29	0.15	18	19.8	22.5	7.0	1.5	20	20	2	2	N/A	N/A
A1	X1, X2	115	400	N/A	122	0.05	90	95	103	30	5.0	25	50	2	2	N/A	N/A

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

2/ Over the temperature range.

3/ With rated coil voltage.

4/ From rated coil voltage.

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

Type of load	Life operat ing cycles x 10 ³	28 V dc				115 V ac, 1 phase				115/200 V ac, 3 phase 1/				See appro priate 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														<u>2/</u>
Mechanical life reduced current	400	1.25	1.25			1.25	1							
Mixed loads	Applicable per specification													

1/ Absence of value indicates relay is not rated for 3-phase application.

2/ Transfer load indicates relay is suitable for transfer between unsynchronized ac power supplies at rating indicated.

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 μ s
Vibration - sinusoidal (see chart below)	
G-level	10 g's
Frequency range	5 - 1,500 Hz

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Vibration - random	
Applicable spec	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's

Electrical characteristics.

Minimum insulation resistance, initial	100 megohms.
After life or environmental tests	50 megohms.

Dielectric strength (sea level).

	<u>Initial</u>	<u>After life tests</u>
Coil to case	1,050 V rms	1,000 V rms
Aux contacts		
All other points	1,050 V rms	1,000 V rms

Dielectric strength (altitude).

	<u>80,000 ft</u>
Coil to case	1,000 V rms
Aux contacts	
All other points	1,000 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).	

Group A acceptance reports shall be submitted to the qualifying activity on a yearly basis in order to retain qualification for this specification.

Group B and group C testing are not required. The manufacturer shall notify the qualifying activity in the event of any design or construction changes, and shall impose additional testing requirements as necessary.

Qualification by similarity: See MIL-PRF-6106.

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NOTES

Referenced documents. In addition to MIL-PRF-6106, this specification sheet references the following documents. (Government documents are available on line at <http://assist.daps.dla.mil/quicksearch> or www.dodssp.daps.mil or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094).

SPECIFICATIONS

Department of Defense

MIL-PRF-23586 - Sealing Compound (with Accelerator), Silicone Rubber, Electrical

STANDARDS

Department of Defense

MIL-STD-461 - Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment

Custodians:

Navy - AS

Air Force - 11

DLA - CC

Preparing activity:

DLA - CC

(Project 5945-1214-05)

Review activities:

Air Force - 99

Navy - EC

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using ASSIST Online database at www.dodssp.daps.mil.