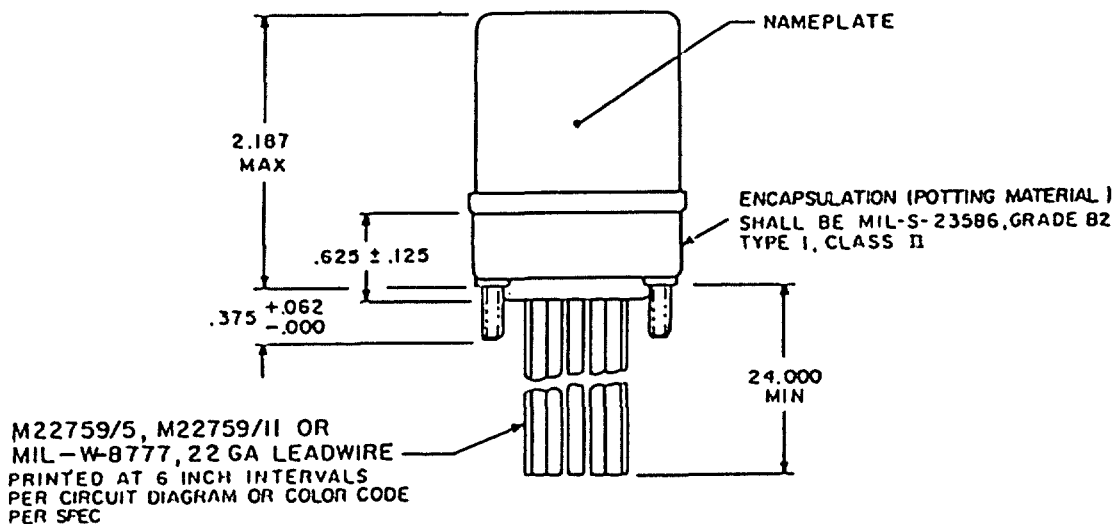
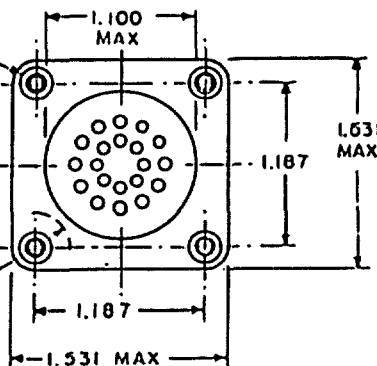
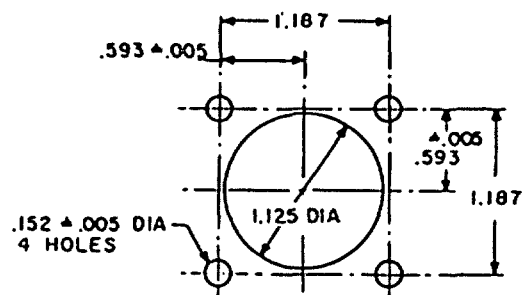
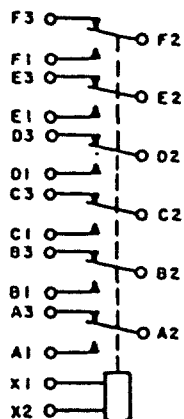


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Navy -  
Air Force -Review activities: Army -  
Navy - EC  
Air Force - 11, 99

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STUD, NO. 6-32 UNC-2A  
NUT, MS35649-262  
LOCKWASHER, MS35338-41  
WASHER, AN960-6  
4 EACH REQUIRED.235 MIN RAD  
CLEARANCECIRCUIT  
DI-A1  
(NOTE 5)

MOUNTING HOLE LAYOUT

(H) ENTIRE STANDARD REVISED

P.A USAF - 85 Other Cust Navy - AS	International Interest	TITLE RELAYS, ELECTROMAGNETIC, 5 AMPERES, 6 PDT, TYPE I, POTTED LEAD, HERMETICALLY SEALED	MILITARY STANDARD <b>MS25270</b>
Procurement Specification MIL-R-6106	SUPERSEDES:	PAGE 1 OF 5	

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AMSC N/A

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Inches	mm
.005	0.13
.062	1.57
.125	3.18
.152	3.86
.235	5.97
.375	9.53
.593	15.06
.025	15.88
1.100	27.94
1.187	30.15
1.531	38.89
2.187	55.55
24.00	609.60

## 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 need not appear on relay header provided there is affixed to the relay a suitable legible circuit diagram that permanently and positively identifies each terminal location specified hereon.
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 (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
MS25270-					
D1	I	dc	Lead	Stud	.67
A1	I	ac	Lead	Stud	.67

P.A. USAF - 85	International interest	TITLE RELAYS, ELECTROMAGNETIC, 5 AMPERES, 6 PDT, TYPE I, POTTED LEAD, HERMETICALLY SEALED	MILITARY STANDARD
Other Cust Navy - AS			MS25270
Procurement Specification MIL-R-6106	SUPERSEDES:		PAGE 2 OF 5

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

Type of load	Life operating cycles X 10 <sup>3</sup>	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.

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Navy - AS

International  
interest

TITLE

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

MILITARY STANDARD

MS25270

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MIL-R-6106

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EC 11, 99

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5945

### Electrical characteristics

Insulation resistance, initial	100 megohms
After life or environmental tests	50 megohms
Dielectric strength (sea level)	
Initial	1,050 V rms
Coil to case	After life tests 1,000 V rms
Aux contacts	
All other points	1,050 V rms
Dielectric strength (altitude)	
Coil to case	80,000 ft
Aux contacts	1,000 V rms
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)	

### Quality conformance inspection

Performance of groups B and C tests are not applicable.

### Environmental characteristics

Temperature range	-70°C to +125°C
Max altitude rating	80,000 ft
Shock G-level	25 G
Duration	11 ms
Max duration contact opening	10 μs
Vibration - sinusoidal	
G-level	10 G
Frequency range	5 - 1,500 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	15 G
Acceleration	

P.A.

USAF - 85

Other Cust

Navy - AS

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