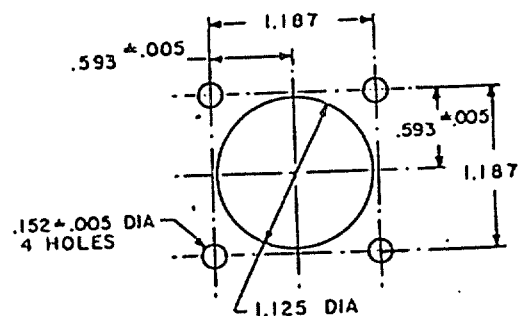
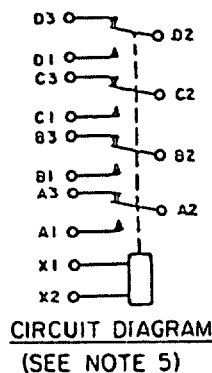
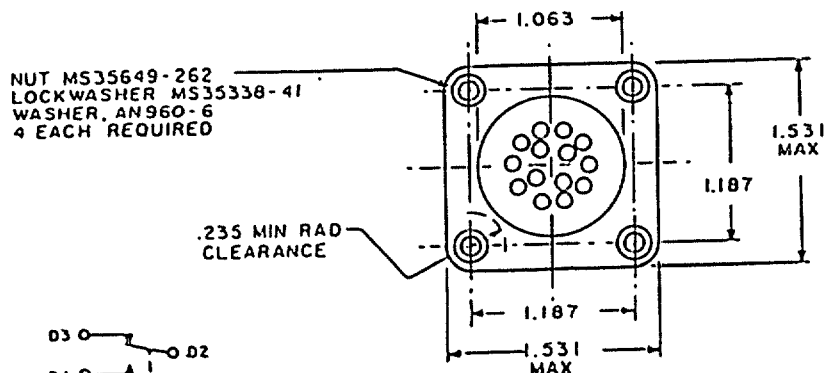
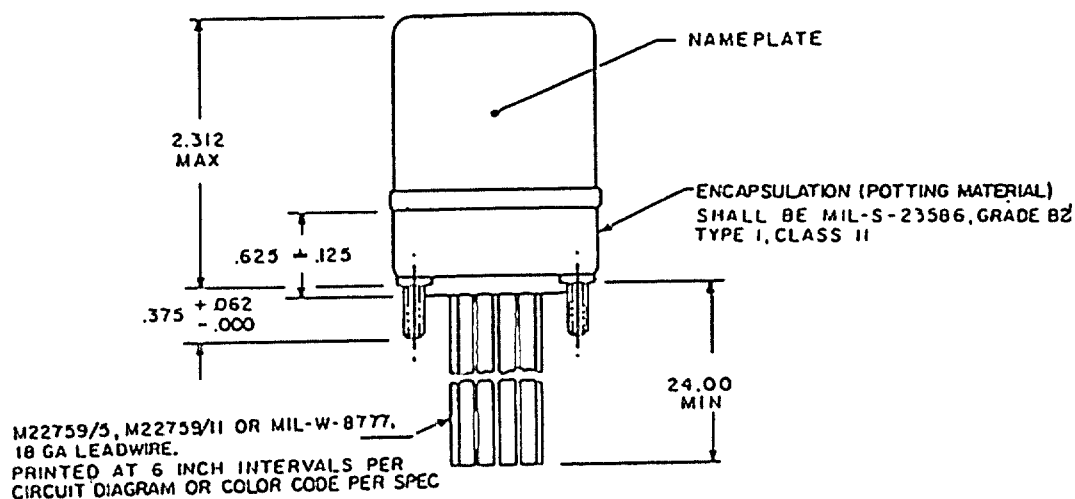


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NO SUPERSEDING STANDARDUser activities: Army -
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Air Force -

11, 99

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**MOUNTING HOLE LAYOUT**

(H) denotes changes

| | | | |
|--|---------------------------|---|-------------------|
| P.A USAF - 85 Other Cust Navy -AS | International Interest | TITLE RELAYS, ELECTROMAGNETIC, 10 AMPERES, 4 PDT, TYPE I, POTTED LEAD, HERMETICALLY SEALED | MILITARY STANDARD |
| | | | MS25272 |
| Procurement Specification MIL-R-6106 | | SUPERSEDES: | PAGE 1 OF 5 |

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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, tolerance is ± 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 positively and permanently identifies each terminal location specified herein.
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 |
|-------------|------|------|---------------|----------|-------------------------|
| MS25272- | | | | | |
| D1 | I | dc | Lead | Stud | .77 |
| A1 | I | ac | Lead | Stud | .77 |

| | | | |
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(H) TABLE 11. Operating characteristics.

| MS part no. | | Coil data | | | | | | | | | | Time - (milliseconds maximum) | | | | |
|-------------|--|-----------|---------|----------|-------|-------|---------------------|--------|-----------|--------------|------------------|-------------------------------|---------|----------------|------|-----|
| MS25327- | | Coil | Nominal | | Max | | Max pick-up voltage | | | Hold voltage | Drop out voltage | Operate | Release | Contact bounce | | |
| | | | Volts | Freq. Hz | Res Ω | Volts | Amperes | Normal | High temp | Cont current | | | | age | Main | Aux |
| | | | 1/ | | | | | 2/ | test | test | 2/ | 3/ | 4/ | | | |
| D1 | | X1, X2 | 28 | dc | N/A | 29 | 0.30 | 18 | 19.5 | 22.5 | 7.0 | 1.5 | 20 | 20 | 2 | 2 |
| A1 | | X1, X2 | 115 | 400 5/ | N/A | 122 | 0.073 | 90 | 95 | 103 | 30 | 5.0 | 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.
 5/ MS25327-A1 may be used on 60 Hz if maximum ambient temperature is limited to 495°C (maximum coil current shall be 0.077 ampere).

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TITLE

RELAYS, ELECTROMAGNETIC, 10 AMPERES,
4 PDT, TYPE I, POTTED LEAD,
HERMETICALLY SEALED

MILITARY STANDARD

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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 | |
| Resistive | 100 | 10 | 10 | | 10 | 6 | | 10 | 6 | | | |
| Inductive | 100 | | | | | | | | | | | |
| Inductive | 20 | 6 | 6 | | 6 | 4 | | 6 | 4 | | | |
| Motor | 100 | 4 | 4 | | 4 | 3 | | 4 | 3 | | | |
| Lamp | 100 | 2 | 2 | | 2 | 1.5 | | 2 | 1.5 | | | |
| Transfer load | | | | | | | | | | | | 2/ |
| Mechanical life reduced current | 400 | 2.5 | 2.5 | | 2.5 | 2 | | 2.5 | 2 | | | |
| 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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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
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 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 1,500 V rms 1,125 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 40 amperes dc,
60 amperes ac
Rupture current 50 amperes dc,
80 amperes ac
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.

(H) 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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