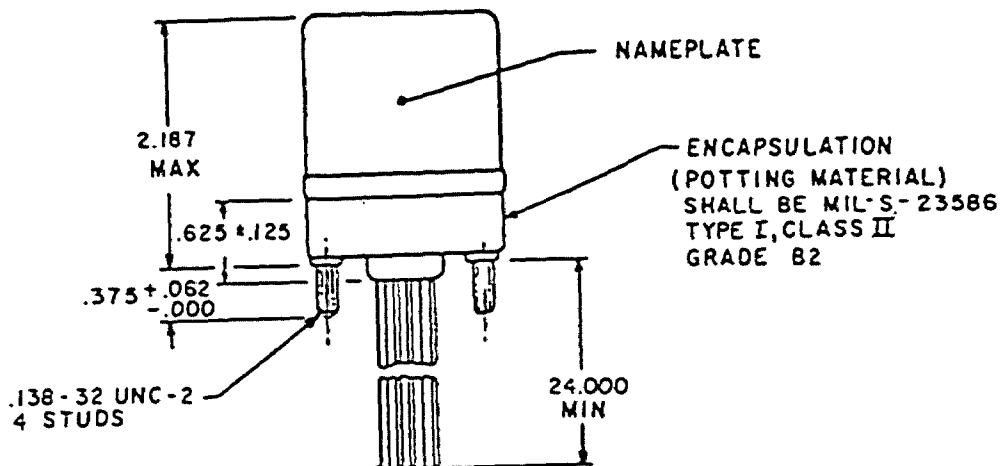


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INACTIVE FOR NEW DESIGN AFTER 5 JUN 87
NO SUPERSEDING STANDARD
(FOR NEW DESIGN USE MIL-R-6106/28)

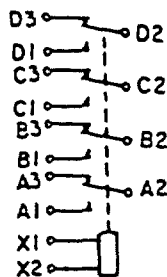
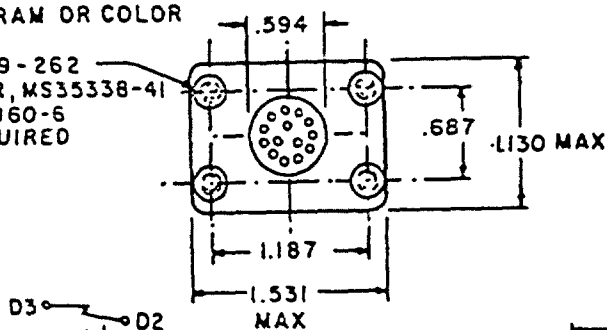
User activities: Army -
Navy -
Air Force -Review activities: Army - EC
Navy -
Air Force - 11, 99

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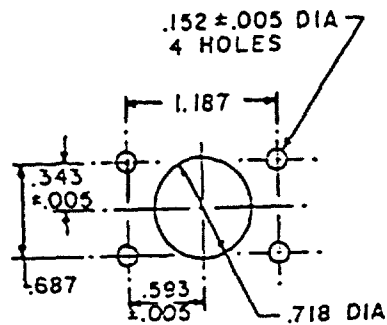


MS17411 OR MS21985 LEADWIRE
22 GA PRINTED AT 6 INCH INTERVALS
PER CIRCUIT DIAGRAM OR COLOR
CODE PER SPEC

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



CIRCUIT
D1, A1
(SEE NOTE 4)



MOUNTING HOLE LAYOUT

(H) ENTIRE STANDARD REVISED

| | | | |
|--|---------------------------|--|----------------------------------|
| 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 1 OF 5 |

DD FORM 672
1 MAY 73
AMSC N/A

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DISTRIBUTION STATEMENT A.

Approved for public release; distribution is unlimited.

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APPROVED 17 March 1958 REVISED (H) 5 JUN 87

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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 |

APPROVED 17 March 1958 REVISED (H) ENTIRE STANDARD REVISED.

| | | | |
|--|---------------------------|--|----------------------------------|
| 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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Review activities: Army -
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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 2/ 2/ | Hold volt- age 2/ 2/ | Operate 3/ 3/ | Release 4/ 4/ | Contact bounce | | | | |
| | | Volts 1/ 1/ | Freq. Hz | Res Ω | Volts | Amperes | Normal 2/ 2/ | High temp test | | | | | Cont current test | NO | NC | IND | RUX |
| | | | | | | | | | | | | | | | | | |
| MS25268- | D1 | X1, X2 | 28 | dc | N/A | 29 | 0.15 | 18 | 19.8 | 22.5 | 1.5 | 7.0 | 20 | 20 | 2 | 2 | |
| | A1 | X1, X2 | 115 | 1400 | N/A | 122 | 0.05 | 90 | 95 | 103 | 5.0 | 30 | 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.

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5945

| | | | |
|--|------------------------|--|-------------------|
| 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 3 OF 5 | | | |

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Air Force - 11, 99

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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 | Aux | |
| | | NO | NC | NO | NC | 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 | | | | |
| Intnd 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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5945

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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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PAGE 4 OF 5

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User activities: Army -
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5945

Electrical characteristics

| | |
|---|---------------------------------|
| Insulation resistance, initial | 100 megohms |
| After life or environmental tests | 50 megohms |
| Dielectric strength (sea level) | |
| Coil to case | Initial 1,050 V rms |
| | 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 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 |
| RFL 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 | 50 G |
| Duration | 11 ms |
| Max duration contact opening | 10 μ s |
| 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 |

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PAGE 5 OF 5