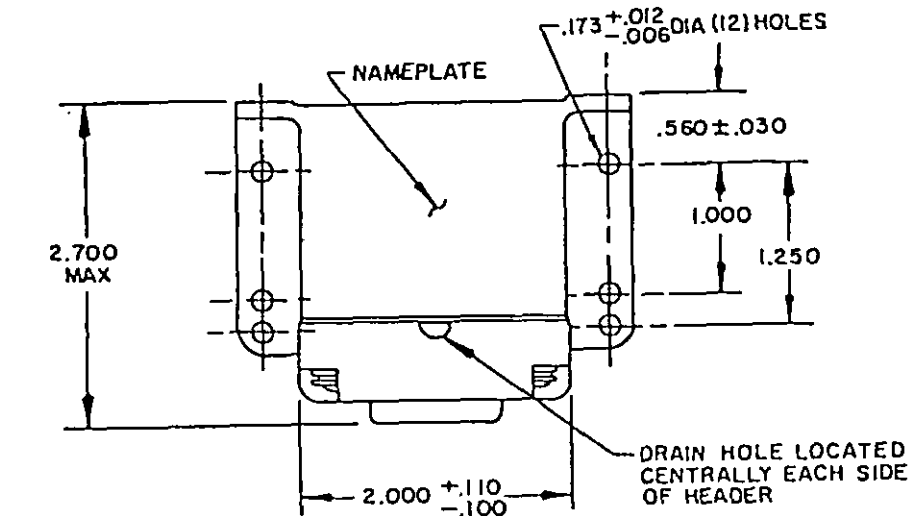
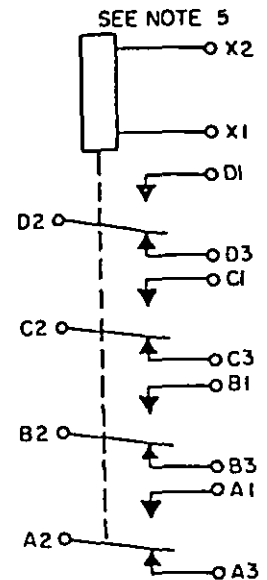
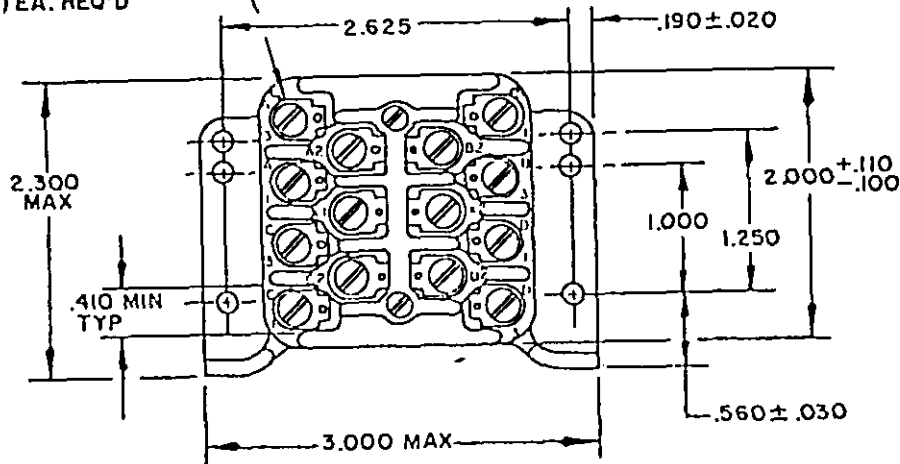


FED. SUP CLASS
5945User activities: Army -
Navy -
Air Force -Review activities: Army -
Navy - EC
Air Force - 11, 99

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SCREW, AN508-6-5
WASHER, MS35338-98
WASHER, AN961-6
(14) EA. REQ'D

CIRCUIT

J ENTIRE STANDARD REVISED

P.A. USAF - 85

Other Cust
Navy - ASInternational
InterestTITLE
RELAYS, ELECTROMAGNETIC, 10 AMPERES,
4 POT, TYPE 1, HERMETICALLY SEALED

MILITARY STANDARD

MS24568

Procurement Specification
MIL-R-6106

SUPERSEDES:

PAGE 1 OF 5

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Inches	mm	Inches	mm
.006	0.15	.410	10.41
.012	0.30	.560	14.22
.020	0.51	1.000	25.40
.030	0.76	1.250	31.75
.100	2.54	2.000	50.80
.110	2.79	2.300	58.42
.173	4.39	2.685	68.20
.190	4.83	2.700	68.58
		3.000	76.20

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ± 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 permanently and positively identifies each terminal location specified herein.
5. The use of diodes on ac relays is optional. Actual application must be shown on label (dash numbers -A1 and -A2 are inactive for new design).
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 1. Dash numbers and characteristics.

Dash number	Type	Coil	Terminal type	Mounting or mating socket	Auxiliary contacts	Max weight in pounds
MS24568-						
D1	I	dc	Screw	Bracket	N/A	0.73
A1 1/	I	ac	Screw	Bracket	N/A	0.75
A2 1/	I	ac	Screw	Bracket	N/A	0.75

1/ Dash numbers -A1 and -A2 are inactive for new design and shall be used for support of existing equipment designs only.

REVISÉ (J) ENTIRE STANDARD REVISED.

APPROVED 5 May 1959

P.A. USAF - 85 Other Cust Navy - AS	International Interest	TITLE RELAYS, ELECTROMAGNETIC, 10 AMPERES, 4 PDT, TYPE I, HERMETICALLY SEALED	MILITARY STANDARD MS 2 4568
Procurement Specification MIL-R-6106		SUPERSEDES:	PAGE 2 OF 5

User activities:
Army -
Navy -
Air Force -

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

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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 voltage 2/ 2/	Operate 3/ 3/	Release 4/ 4/	Contact bounce						
		Volts 1/ 1/	Freq. Hz	Res Ω $\pm 10\%$	Volts	Amperes	Normal 2/ 2/	High temp test					Cont current test	Main	Aux	NO	NC	NO	NC
D1	X1, X2	28	dc	92	30	0.05	18	19.5	22.5	1.5	7.0	20	20	3	5				
A1 5/	X1, X2	115	400	N/A	120	0.1	90	95	103	5.0	30	25	50	3	5				
A2 5/	X1, X2	115	50/60	N/A	120	0.1	90	95	103	10	35	95	30	3	3				

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/ Inactive for new design.

P.A

USAF - 85

Other Cust

Navy - AS

International
Interest

TITLE

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

MILITARY STANDARD

MS 24568

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Review activities: Army - EC
Navy - EC
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User activities: Army -
Navy -
Air Force -

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

Type of load	Life operating (cycles $\times 10^3$)	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	10	10	15	10			15	10
Inductive	100								
Inductive	20	10	10	10	6			10	6
Motor	100	6	6	6	4			6	4
Lamp	100	3	3	3	2			3	2
Transfer load									
Mechanical life reduced current	400	2.5	2.5	4				4	
Intmd current	Applicable per specification								

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

2/ Life ac inductive 50,000 operations minimum at rating indicated.

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

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P.A. USAF - 85 Other Cust Navy - AS	International Interest	TITLE RELAYS, ELECTROMAGNETIC, 10 AMPERES, 4 PDT, TYPE 1, HERMETICALLY SEALED	MILITARY STANDARD
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Review activities:

Army - EC
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User activities:

Army -
Navy -
Air Force -

FED. SUP CLASS
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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 excursion 5 to 36 Hz
Sinusoidal 3 inches G-level Frequency range
20 G 36 to 500 Hz
15 G 500 to 1,000 Hz
10 G 1,000 to 2,000 Hz
Non-operate 20 to 2,000 Hz
Acceleration 15 G

Electrical characteristics

Insulation resistance, initial 100 megohms
After life or environmental tests 50 megohms
Dielectric strength (sea level)
Initial After life tests
Coil to case 1,000 V rms 1,000 V rms
Aux contacts
All other points 2,000 V rms 1,500 V rms
Dielectric strength (altitude)
Coil to case 80,000 ft
500 V rms
Aux contacts
All other points 700 V rms
Max contact drop initial 0.150 volt
After life test 0.175 volt
Overload current 40 amperes dc,
60 amperes ac
60 amperes dc,
80 amperes ac
Continuous
MIL-STD-461
Duty rating
RFI specification
(Applicable to coil circuits of ac operated relays)
Quality conformance inspection

Performance of groups B and C tests not applicable to dash numbers -A1 and -A2.

P.A. USAF - 85 Other Cust Navy - AS	International Interest	TITLE RELAYS, ELECTROMAGNETIC. 10 AMPERES, 4 PDT, TYPE I, HERMETICALLY SEALED	MILITARY STANDARD
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