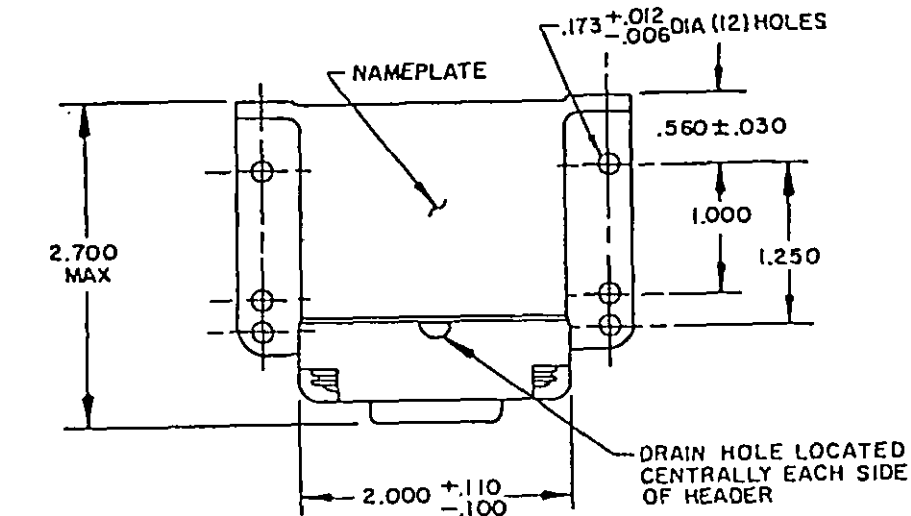
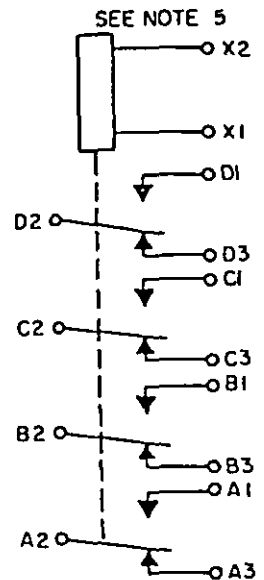
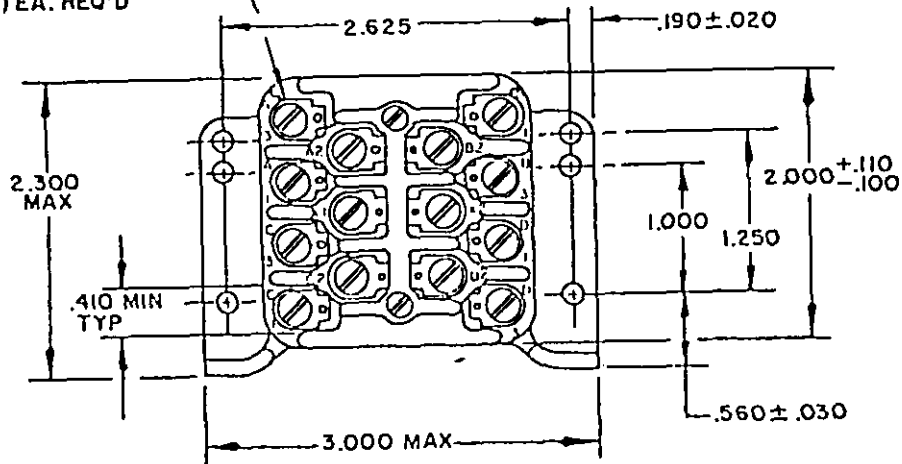


FED. SUP CLASS
5945User activities: Army -
Navy -
Air Force -Review activities: Army -
Navy - EC
Air Force - 11, 99

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

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 - AS	International Interest	TITLE RELAYS, ELECTROMAGNETIC, 10 AMPERES, 4 POT, TYPE 1, HERMETICALLY SEALED	MILITARY STANDARD
Procurement Specification MIL-R-6106	SUPERSEDES:	PAGE 1 OF 5	MS24568

DD FORM 672
1 MAY 73
AMSC N/A

(Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

5945-0745-03

APPROVED 5 May 1959 REVISED J 5 JUN 87

FED. SUP CLASS
5945User activities: Army -
Navy -
Air Force -

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

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

User activities: Army -
Navy -
Air Force -

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

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

FED. SUP CLASS
5945

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 age 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
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

Procurement Specification
MIL-R-6106

SUPERSEDES:

PAGE 3 OF 5

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

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

User activities: Army -
Navy -
Air Force -

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		400 Hz	60 Hz
Resistive	100	10	10			15	10			15	10			
Inductive	100													
Inductive	20	10	10			10	6			10	6		2/	
Motor	100	6	6			6	4			6	4			
Lamp	100	3	3			3	2			3	2			
Transfer load													3/	
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.

FED. SUP CLASS
5945

APPROVED 5 May 1959 REVISED (J) ENTIRE STANDARD REVISED.

P.A. USAF - 85 Other Cust Navy - AS	International Interest	TITLE RELAYS, ELECTROMAGNETIC, 10 AMPERES, 4 PDT, TYPE 1, HERMETICALLY SEALED	MILITARY STANDARD
Procurement Specification MIL-R-6106		SUPERSEDES:	MS 24568
			PAGE 4 OF 5

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

Review activities:

Army - EC
Navy -
Air Force - 11, 99

User activities:

Army -
Navy -
Air Force -

FED. SUP CLASS
5945

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
Procurement Specification MIL-R-6106		SUPERSEDES:	MS 24568
			PAGE 5 OF 5

DD FORM 672
1 MAY 73

(Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

APPROVED 5 May 1959 REVISED (J) ENTIRE STANDARD REVISED.