

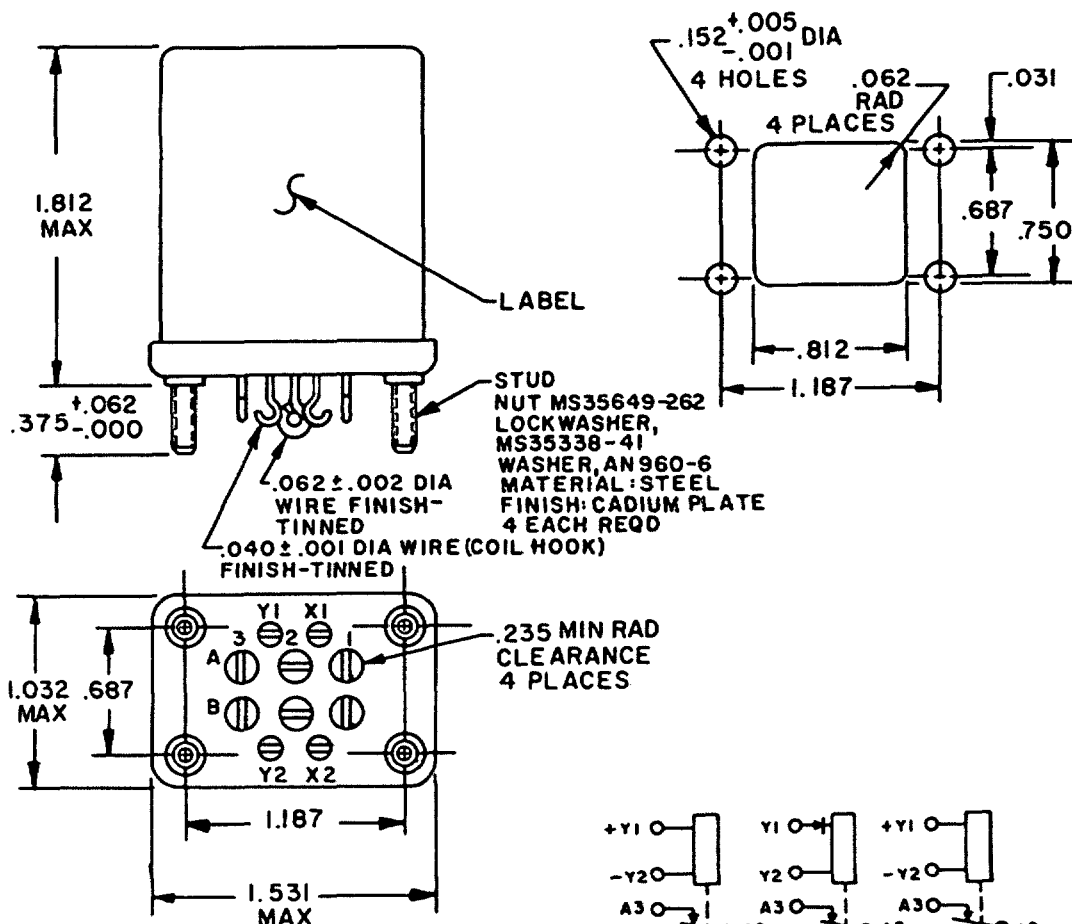
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INACTIVE FOR NEW DESIGN AFTER 5 JUN 87
NO SUPERSEDING STANDARD
(FOR NEW DESIGN USE MIL-R-6106/50)

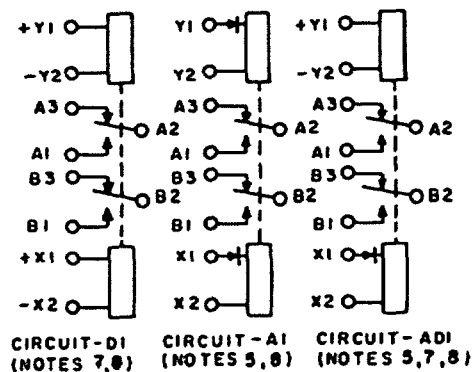
User activities: Army -
Navy -
Air Force -

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

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.



Inches	mm
.000	0.00
.001	0.03
.002	0.05
.005	0.13
.031	0.79
.040	1.02
.062	1.57
.152	3.86
.187	4.75
.235	5.97
.375	9.53
.687	17.45
.750	19.90
.812	20.62
1.032	26.21
1.531	38.89
1.812	46.02



① ENTIRE STANDARD REVISED

P.A. AIR FORCE - 85 Other Cust Navy - AS	International Interest	TITLE RELAYS, ELECTROMAGNETIC, 10 AMPERES, 2 PDT, TYPE I, MAGNETIC LATCH, STUD MOUNTED, SOLDER HOOKS, HERMETICALLY SEALED	MILITARY STANDARD
Procurement Specification	SUPERSEDES:	PAGE 1	OF 5

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.

945-0745-20

5 JUN 87

REVISED

APPROVED 1 Mar 1963

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

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ± 0.010 .
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. Shock, vibration, and acceleration requirements applicable with coils de-energized.
7. Relay is magnetically latched in both positions. Caution note to observe polarity must appear on relays with dc coils.
8. Caution note to observe polarity must appear on relays with dc coils.
9. In the event of a conflict between the test of this standard and the references cited herein, the text of this standard shall take precedence.
10. 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 MS 25466-	Type	Coil	Terminal type	Mounting or mating socket	Max weight in pounds
D1	I	dc	Solder hook	Stud	0.30
A1	I	ac	Solder hook	Stud	0.32
AD1	I	ac-dc	Solder hook	Stud	0.32

APPROVED 1 Mar 1963
REVISED ① ENTIRE STANDARD REVISED

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Procurement Specification MIL-R-6106		SUPERSEDES:	MS25466
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User activities: Army -
Navy -
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TABLE II. Operating characteristics.

MS part no.	Coil data										Time - (milliseconds maximum)					
	Coil	Nominal		Max		Max pick-up voltage			Drop-out voltage	Operate $\frac{3}{\text{---}}$	Release $\frac{4}{\text{---}}$	Contact bounce				
		Volts $\frac{1}{\text{---}}$	Freq. Hz	Res Ω	Volts	Amperes	Normal $\frac{3}{\text{---}}$	High temp test				Cont current test	Main	Aux		
D1	X1, X2 Y1, Y2	28	dc	N/A	29	0.17	18	18	19.8	N/A	25	N/A	2	2		
A1	X1, X2 Y1, Y2	115	400 $\frac{5}{\text{---}}$	N/A	122	0.07	90	90	95	N/A	25	N/A	2	2		
AD1	X1, X2	115	400 $\frac{2}{\text{---}}$	N/A	122	0.07	90	90	95	N/A	25	N/A	2	2		
	Y1, Y2	28	dc	N/A	29	0.17	18	18	19.8	N/A	25	N/A	2	2		

CAUTION: Use of any coil voltage less than nominal coil voltage will compromise the operation of the relay.
 1/ MS25466-A1 and -AD1 may be used on 60 Hz if maximum ambient temperature is limited to +85 C (maximum coil current shall be 0.077 ampere).
 2/ Over the temperature range.
 3/ With nominal coil voltage.
 4/ From nominal coil voltage.

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Other Cust
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TITLE

RELAYS, ELECTROMAGNETIC, 10 AMPERES, 2 POT,
TYPE I, MAGNETIC LATCH, STUD MOUNTED, SOLDER
HOOKS, HERMETICALLY SEALED

MILITARY STANDARD

MS25466

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SUPERSEDES:

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Review activities: Army - EC
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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	160 Hz	400 Hz	
Resistive	100	10	10	10	6			6	
Inductive	100								
Inductive	20	6	6	10	4			10	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		Electrical characteristics	
Temperature range	-70°C to +125°C	Insulation resistance, initial	100 megohms
Max altitude rating	80,000 ft	After life or environmental tests	50 megohms
Shock G-level	50 G	Dielectric strength (sea level)	
Duration	11 ms		
Max duration contact opening	10 μs	Coil to case	Initial 1,000 V rms After life tests 1,000 V rms
Vibration - sinusoidal		Aux contacts	
G-level	10 G	All other points	1,500 V rms 1,125 V rms
Frequency range	5 - 1500 Hz	Dielectric strength (altitude)	(When mounted in mating socket)
Acceleration	15 G		
		Coil to case	80,000 ft
		Aux contacts	250 V rms
		All other points	350 V rms
		Max contact drop initial	0.150 volt
		After life test	0.175 volt
		Overload current	40 amperes dc, 60 amperes ac, 50 amperes dc, 80 amperes ac
		Rupture current	Continuous
		Duty rating	MIL-STD-461
		RFI specification	(Applicable to coil circuits of ac operated relays)
		Quality conformance inspection	
		Performance of groups B and C testing are not applicable.	

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