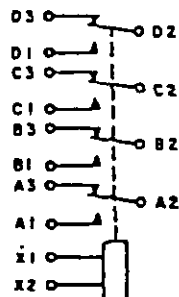
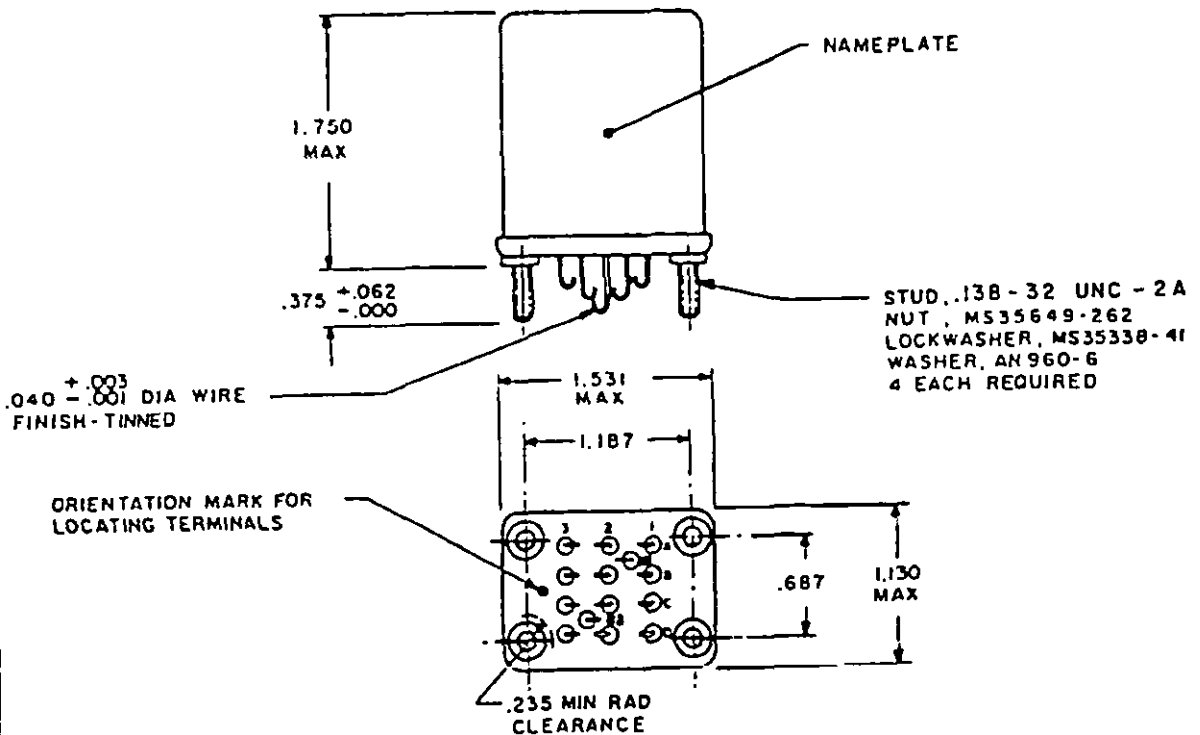
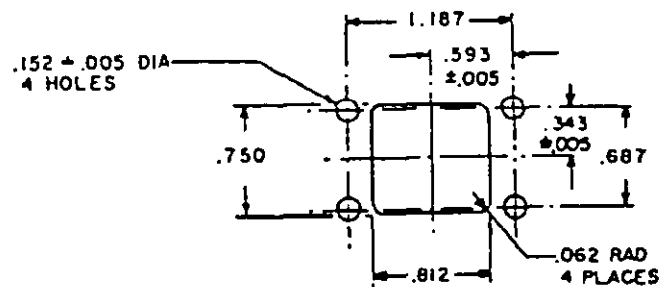


FED. SUP CLASS  
5945User activities: Army -  
Navy -  
Air Force -Review activities: Army -  
Navy - EC  
Air Force - 11, 99

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CIRCUIT DIAGRAM  
(SEE NOTE 5)

MOUNTING HOLE LAYOUT

(G) ENTIRE STANDARD REVISED

P.A. USAF - 85 Other Cust Navy - A5	International Interest	TITLE RELAYS, ELECTROMAGNETIC, 5 AMPERES, 4 PDT, TYPE 1, SOLDER HOOK, HERMETICALLY SEALED	MILITARY STANDARD <b>MS25267</b>
Procurement Specification MIL-R-6106	SUPERSEDES:	PAGE 1 OF 5	

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1 MAY 73  
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5945-0745-04

APPROVED 17 March 1958 REVISED (G) 6 JUNE 67

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Inches	mm	Inches	mm
.001	0.03	.375	9.53
.003	0.08	.593	15.06
.005	0.13	.687	17.45
.040	1.02	.750	19.05
.062	1.57	.812	20.62
.138	3.51	1.130	28.70
.152	3.86	1.187	30.15
.235	5.97	1.531	38.89
.343	8.71	1.750	44.45

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are  $\pm 0.010$  (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.
6. In the event of 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
MS25267-					
D1	I	dc	Solder hook	Stud	.32
A1	I	ac	Solder hook	Stud	.32

P.A. USAF - 85 Other Cust Navy - AS	International Interest	TITLE RELAYS, ELECTROMAGNETIC, 5 AMPERES, 4 PDT, TYPE I, SOLDER HOOK, HERMETICALLY SEALED	MILITARY STANDARD
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**TABLE II. Operating characteristics.**

MS part no.	Coil data										Time (milli seconds max)				
	Coil	Nominal		Max		Max pick-up voltage				Drop-out voltage $\frac{3}{\bar{}}$	Hold voltage $\frac{3}{\bar{}}$	Operate $\frac{4}{\bar{}}$	Release $\frac{5}{\bar{}}$	Contact bounce	
		Volts $\frac{1}{\bar{}}$	Freq. Hz	Res $\Omega$	Volts	Amperes	Normal $\frac{3}{\bar{}}$	High temp test	Cont current test					Main	Aux
MS25267 -	X1, X2	28	dc	248	29	0.15	18	19.8	22.5	1.5	7.0	20	20	2	2
A1	X1, X2	115	400 $\frac{2}{\bar{}}$	N/A	122	0.05	90	95	103	5.0	30	25	50	2	2

CAUTION: Use of any coil voltage less than nominal coil voltage will compromise the operation of the relay. MS25267-A1 may be used on 60 Hz if maximum ambient temperature is limited to 85°C, maximum current will be 0.044 ampere.

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

Type of load	Life operating cycles X 10 <sup>3</sup>	28 V dc		115 V ac, 1 phase		115/200 V ac, 3 phase 1/				See appropriate notes
		Main	Aux	Main	Aux	Main	Aux	Main	Aux	
		NO	NC	NO	NC	1400 Hz	1400 Hz	160 Hz	1400 Hz	
Resistive	100	5	5	5	4					
Inductive	100									
Inductive	20	3	3	3	2					
Motor	100	1.5	11.5	1.5	1					
Lamp	100	10.8	10.8	0.8	0.6					
Transfer load										2/
Mechanical life reduced current	400	1.25	11.25	1.25	1					
Interad current		Applicable per specification								

1/ Absence of value indicates relay is not rated for 3-phase applications.  
(See MS27218 for polyphase applications).2/ Transfer load indicates relay suitable for transfer between unsynchronized  
ac power supplies at rating indicated.

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Other Cust  
Navy - ASInternational  
InterchangeTITLE  
RELAYS, ELECTROMAGNETIC, 5 AMPERES,  
4 PDT, TYPE 1, SOLDER HOOK,  
HERMETICALLY SEALED

MILITARY STANDARD

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

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Review activities: Army -  
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User activities: Army -  
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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 15 G  
Acceleration

Electrical characteristics

Insulation resistance, initial 100 megohms  
After life or environmental tests 50 megohms  
Dielectric strength (sea level)  
Initial 1,000 V rms  
After life tests 1,000 V rms  
Coil to case 1,000 V rms  
Aux contacts  
All other points 1,000 V rms  
Dielectric strength (altitude)  
80,000 ft  
250 V rms  
Coil to case  
Aux contacts  
All other points 250 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  
RFI specification MIL-STD-461  
(Applicable to coil circuits of ac operated relays)

P.A  
USAF - 85  
Other Cust  
Navy - AS

International  
Interest

## TITLE

RELAYS, ELECTROMAGNETIC, 5 AMPERES,  
4 PDT, TYPE I, SOLDER HOOK,  
HERMETICALLY SEALED

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MS 25267

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