

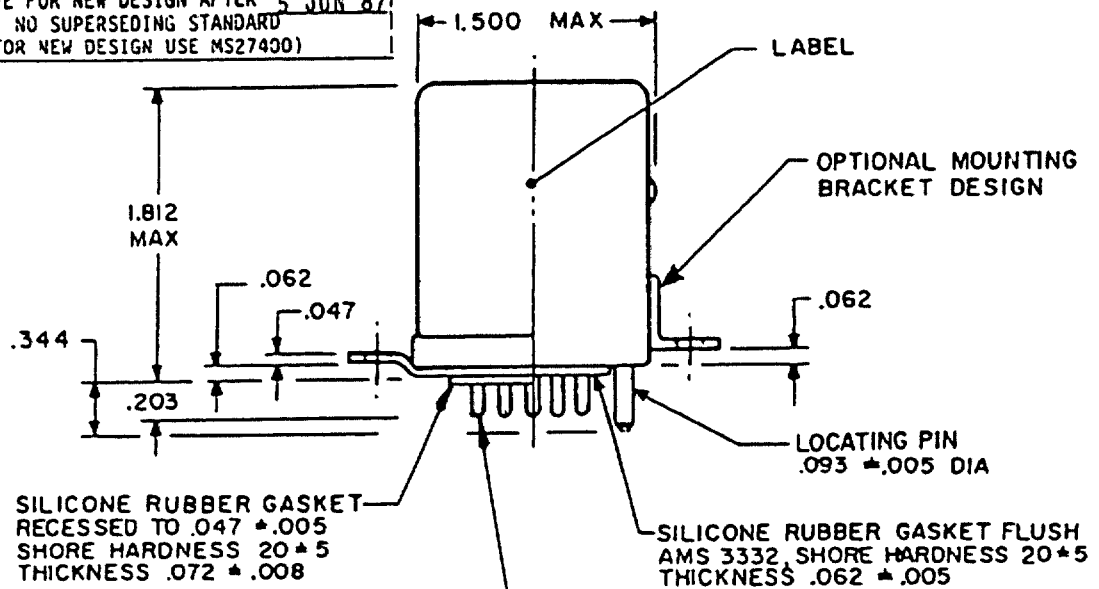
FED. SUP CLASS
5945

INACTIVE FOR NEW DESIGN AFTER 5 JUN 87
NO SUPERSEDING STANDARD
(FOR NEW DESIGN USE MS27400)

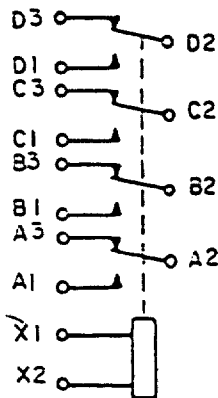
User activities:
Army -
Navy -
Air Force -

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

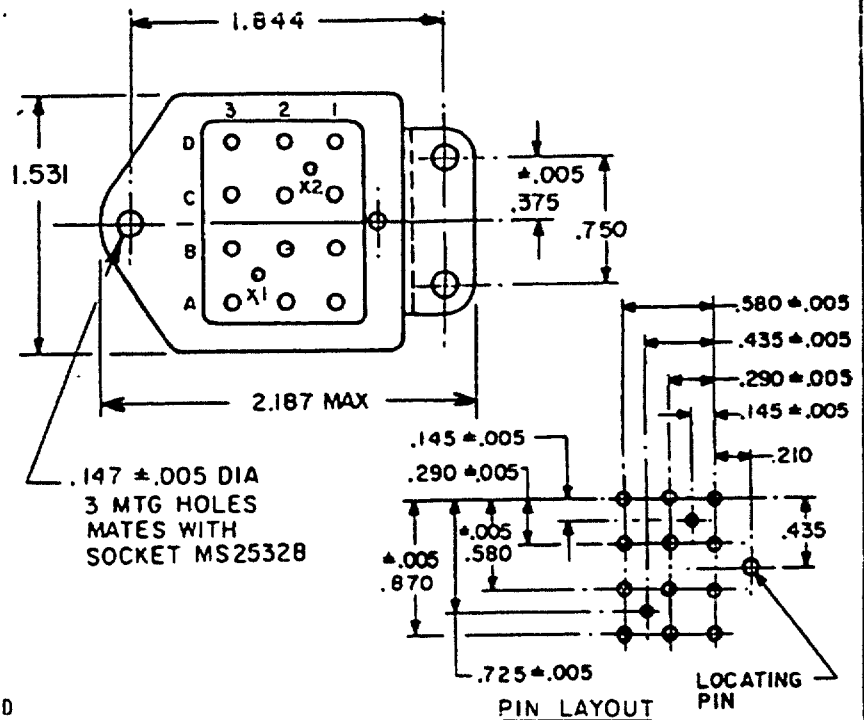
This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.



12 PINS, .0625 \pm .001 DIA
2 PINS, .040 \pm .001 DIA (X1, X2)
GOLD PLATE PER MIL-G-45204,
TYPE II, CLASS I, UNDERPLATING,
NICKEL 50 TO 150 MICROINCHES
THICK.



CIRCUIT DIAGRAM
(SEE NOTE 4)



(L) ENTIRE STANDARD REVISED

P.A USAF - 85 Other Cust Navy - AS	International interest	TITLE RELAYS, ELECTROMAGNETIC, 10 AMPERES, 4 PDT. TYPE 1, SOCKET MOUNTED, HERMETICALLY SEALED	MILITARY STANDARD
			MS25327
Procurement Specification MIL-R-6106		SUPERSEDES:	PAGE 1 OF 5

DD FORM 1 MAY 73 672
AMSC N/A

(Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5945-0745-13

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REVISED (L) 5 JUN 87
APPROVED 12 May 58

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Inches	mm	Inches	mm
.001	0.03	.290	7.37
.005	0.13	.344	8.74
.008	0.20	.375	9.52
.040	1.02	.435	11.05
.047	1.19	.580	14.73
.062	1.57	.725	18.42
.0625	1.588	.750	19.05
.072	1.83	.870	22.10
.093	2.36	1.500	38.10
.145	3.68	1.531	38.99
.147	3.73	1.821	46.02
.203	5.16	1.844	46.84
.210	5.33	2.187	55.55

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are $\pm .010$ (0.25 mm).
4. The use of diodes on ac relays is optional. Actual application must be shown on label.
5. Pins to be perpendicular to header surface within one degree.
6. Terminal numbers need not appear on relay headers provided there is affixed to the relay a suitable legible circuit diagram that positively and permanently identifies each terminal location specified herein.
7. 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.
8. 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	Max weight in pounds
MS25327-				
D1	1	dc	Plug in	.43
A1	1	ac	Plug in	.45

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P.A
USAF - 85
Other Cust
Navy - AS

International
interest

TITLE

RELAYS, ELECTROMAGNETIC, 10 AMPERES,
4 PDT, TYPE 1, SOCKET MOUNTED,
HERMETICALLY SEALED.

MILITARY STANDARD

MS25327

Procurement Specification
MIL-R-6106

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TABLE II. Operating characteristics.

MS part no. MS25272-	Coil data										Time - (milliseconds maximum)				
	Coil	Nominal		Max		Max pick-up voltage			Drop-out voltage 2/	Hold voltage 2/	Operate 3/	Release 4/	Contact bounce		
		Volts 1/	Freq. Hz	Res Ω	Volts	Amperes	Normal 2/	High temp test					Cont current test	Main	Aux
01	X1, X2	28	dc	N/A	29	0.350	18	19.5	22.5	1.5	7.0	20	20	2	2
A1	X1, X2	115	400 5/	N/A	122	0.073	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.

5/ MS25272-A1 may be used on 60 Hz if maximum ambient temperature is limited to 85°C (maximum coil current shall be 0.077 ampere).

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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		Main		Main		Aux	
		NO	NC	NO	NC	400 Hz	60 Hz	400 Hz 160 Hz	
Resistive	100	10	10	10	6			10 6	
Inductive	100								
Inductive	20	6	6	6	4			6 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	
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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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		
Duration	11 ms	Dielectric strength (sea level)	
Max duration contact opening	10 μs	Initial	After life tests
Vibration - sinusoidal		1,000 V rms	1,000 V rms
G-level	10 G		
Frequency range	5 - 1500 Hz	Aux contacts	
Vibration - random		All other points	1,500 V rms 1,125 V rms
Applicable specification	N/A		
Power spectral density	N/A	Dielectric strength (Altitude)	
RMS G min	N/A		80,000 ft
Frequency range	N/A	Coil to case	500 V rms
Curve	N/A	Aux contacts	500 V rms
High shock	15 G	All other points	500 V rms
Acceleration			
		Max contact drop initial	0.150 volt
		After life test	0.175 volt
		Overload current	40 amperes dc, 60 amperes ac
		Rupture current	50 amperes dc, 80 amperes ac
		Duty rating	Continuous
		RFI specification	MIL-STD-461
		(Applicable to coil circuits of ac operated relays)	
		Quality conformance inspection	
		Performance of groups B and C inspections are not applicable	

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