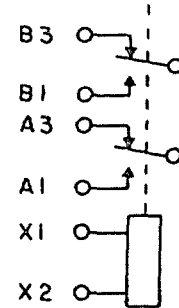
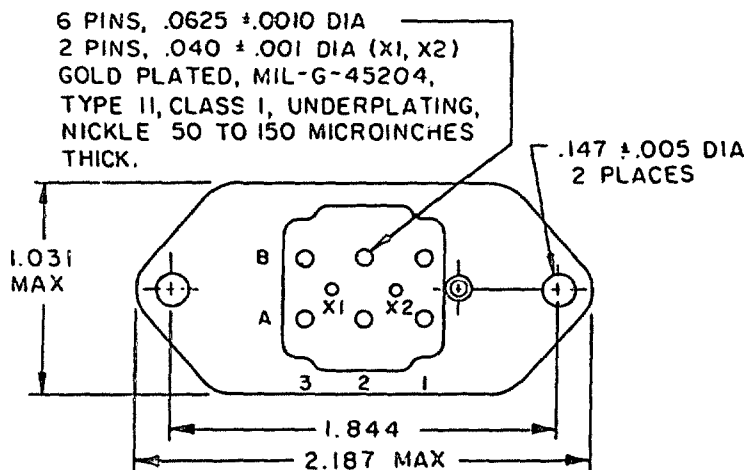
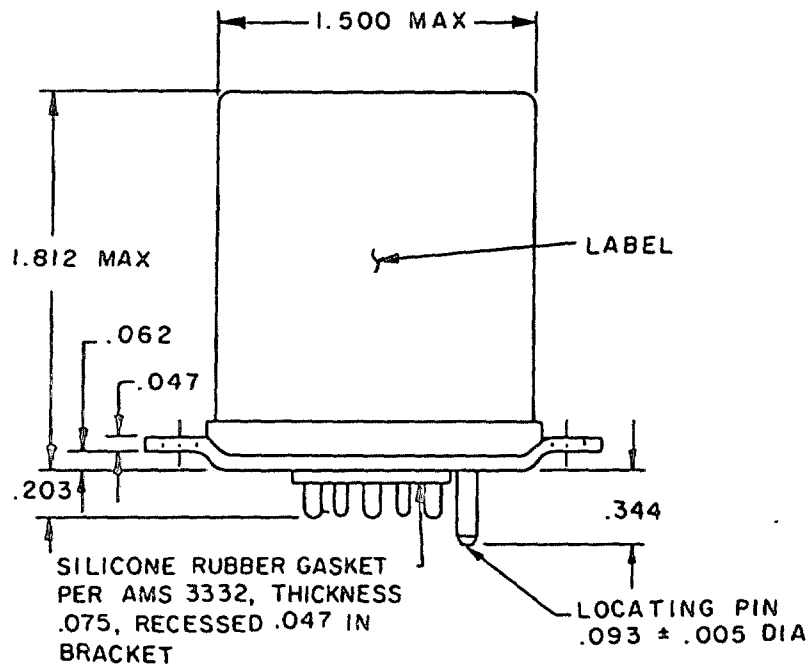
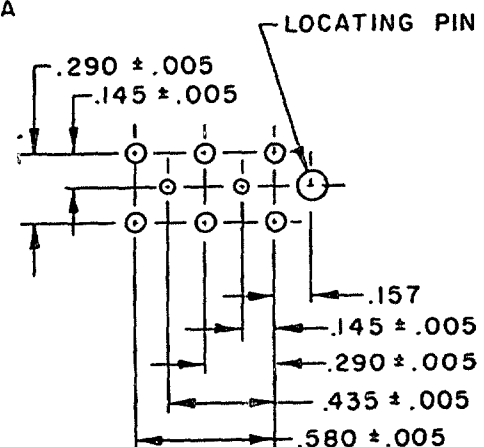


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INACTIVE FOR NEW DESIGN AFTER 5 JUN 87
NO SUPERSEDING STANDARD
(FOR NEW DESIGN USE MS27401)

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

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CIRCUIT DIAGRAM
(SEE NOTES 4 AND 5)

PIN LAYOUT

(K) denotes changes

P.A. USAF - 85 Other Cust Navy - AS	International Interest	TITLE RELAYS, ELECTROMAGNETIC, 10 AMPERES, 2 PDT, TYPE I, SOCKET MOUNTED, HERMETICALLY SEALED	MILITARY STANDARD MS25323
Procurement Specification MIL-R-6106	SUPERSEDES:	PAGE 1 OF 5	

DD FORM 672
1 MAY 73
AMSC N/A

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APPROVED 12 May 58 REVISED (K) 20 Jan 1989

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Inches	mm	Inches	mm	Inches	mm
.0010	0.025	.093	2.36	.435	11.05
.001	0.03	.145	3.68	.580	14.73
.005	0.13	.147	3.73	1.031	26.19
.040	1.02	.157	3.99	1.500	38.10
.047	1.19	.203	5.16	1.812	46.02
.062	1.57	.290	7.37	1.844	46.84
.0625	1.588	.344	8.74	2.187	55.55
.075	1.91				

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.
6. Pins to be perpendicular to header surface within one degree.
7. In the event of 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
MS25323-				
D2	1	dc	Plug in	0.28
A2	1	ac	Plug in	0.30
A3	1	ac	Plug in	0.30

P.A. USAF - 85 Other Cust Navy - AS	International interest	TITLE RELAYS, ELECTROMAGNETIC, 10 AMPERES, 2 PDT, TYPE I, SOCKET MOUNTED, HERMETICALLY SEALED	MILITARY STANDARD MS25323
Procurement Specification MIL-R-6106		SUPSEDES:	PAGE 2 OF 5

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

User activities: Army -
Navy -
Air Force -

(K) TABLE 11. Operating characteristics.

MS part no.	Coil data										Time - (milliseconds maximum)			
	Coil	Nominal		Max		Max pick-up voltage			Hold voltage $\frac{2}{2}$	Drop-out voltage $\frac{2}{2}$	Operate $\frac{3}{3}$	Release $\frac{4}{4}$	Contact bounce	
		Volts $\frac{1}{1}$	Freq. Hz	Res Ω	Volts	Amperes	Normal $\frac{2}{2}$	High temp test					Main	Aux
D1	X1, X2	28	dc	N/A	29	0.20	18	119.8	22.5	7.0	1.5	20	2	2
A1	X1, X2	115	400 5/	N/A	122	0.07	90	95	103	35	5.0	50	2	2
A3	X1, X2	115	50/60	N/A	122	0.10	90	95	103	35	5.0	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/ MS25323-A2 may be used on 60 Hz if maximum ambient temperature is limited to +85°C.

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International
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TITLE

RELAYS, ELECTROMAGNETIC, 10 AMPERES,
2 POT. TYPE I, SOCKET MOUNTED,
HERMETICALLY SEALED

MILITARY STANDARD

MS25323

Procurement Specification
MIL-R-6106

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Review activities: Army - 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 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
		NO	NC	NO	NC	400 Hz	60 Hz	400 Hz	60 Hz	400 Hz		60 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		
Intmd current		Applicable per specification										

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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TITLE

RELAYS, ELECTROMAGNETIC, 10 AMPERES,
2 PDT, TYPE I, SOCKET MOUNTED,
HERMETICALLY SEALED

MILITARY STANDARD

MS 25323

Procurement Specification
MIL-R-6106

SUPERSEDES:

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P.A. USAF - 85		International Interest	TITLE RELAYS, ELECTROMAGNETIC, 10 AMPERES, 2 PDT, TYPE I, SOCKET MOUNTED HERMETICALLY SEALED.	MILITARY STANDARD
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<u>Environmental characteristics</u> 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 10 G G-level 5 - 1500 Hz Frequency range 15 G Acceleration		<u>Electrical characteristics</u> Insulation resistance 100 megohms After life or environmental tests 50 megohms Dielectric strength (sea level) Coil to case 1,000 V rms Initial After life tests 1,000 V rms 1,000 V rms Aux contacts All other points 1,500 V rms 1,125 V rms Dielectric strength (altitude) Coil to case 80,000 ft 500 V rms Aux contacts 500 V rms All other points 500 V rms 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) <u>Quality conformance inspection</u> Performance of groups B and C tests are not applicable. Group A acceptance reports shall be submitted to the preparing activity on a yearly basis in order to retain qualification for this military standard sheet.
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