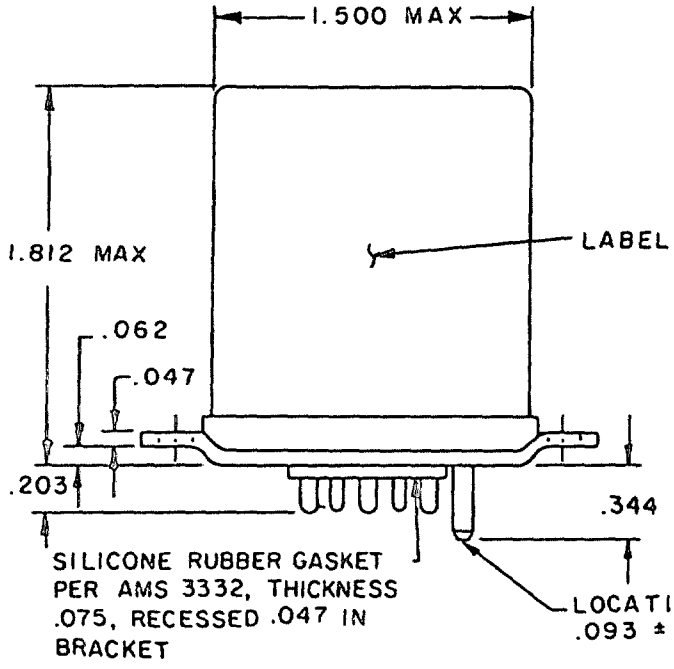
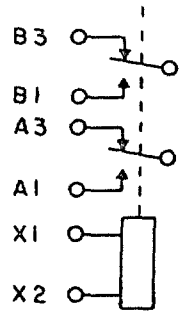
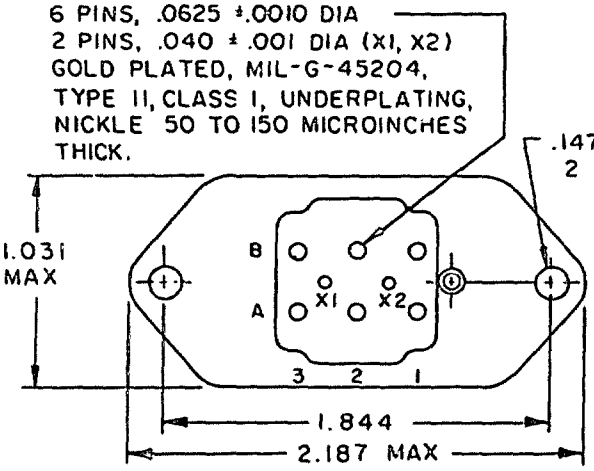
FED. SUP CLASS
5945

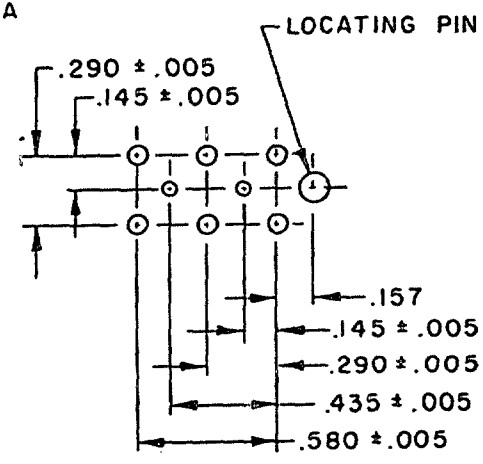
INACTIVE FOR NEW DESIGN AFTER 5 JUN 87
NO SUPERSEDING STANDARD
(FOR NEW DESIGN USE MS27401)





CIRCUIT DIAGRAM
(SEE NOTES 4 AND 5)





PIN LAYOUT

(K) denotes changes

REVISED (K) 20 Jan 1989
APPROVED 12 May 58

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

DD FORM 1 MAY 73 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
AMSC N/A

5945-0792-04

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

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

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

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 ±.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 MS25323-	Type	Coil	Terminal type	Max weight in pounds
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		SUPERSEDES:	PAGE 2 OF 5

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

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International Interest

SUPERSEDES:

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

MILITARY STANDARD

MS25323

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(K) TABLE II. Operating characteristics.

MS part no. MS25323-	Coil data											Time - (milliseconds maximum)					
	Coil	Nominal			Max		Max pick-up voltage			Hold voltage 2/	Drop-out 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	
														NO	NC	NO	NC
D1	X1, X2	28	dc	N/A	29	0.20	18	19.8	22.5	7.0	1.5	20	20	2	2		
A1	X1, X2	115	400 5/	N/A	122	0.07	90	95	103	35	5.0	25	50	2	2		
A3	X1, X2	115	50/60	N/A	122	0.10	90	95	103	35	5.0	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/ MS25323-A2 may be used on 60 Hz if maximum ambient temperature is limited to +85°C.

APPROVED 12 May 58 REVISED (K) For changes see pages 3 and 5

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Procurement Specification MIL-R-6106

P.A
USAF - 85
Other Cust
Navy - AS

International interest

SUPERSEDES:

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

MILITARY STANDARD

MS 25323

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FED. SUP CLASS 5945

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			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													

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.

APPROVED 12 May 1958 REVISED (K) For changes see pages 3 and 5

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

User activities: Army -
Navy -
Air Force -

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Other Cust Navy - AS

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

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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 - 1500 Hz
Acceleration	15 G

Electrical characteristics

Insulation resistance	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	1,500 V rms	1,125 V rms

Dielectric strength (altitude)

	80,000 ft
Coil to case	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)

Quality conformance inspection

Performance of groups B and C tests are not applicable.

(K) 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.

APPROVED 12 May 58 REVISED (K) For changes see pages 3 and 5

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