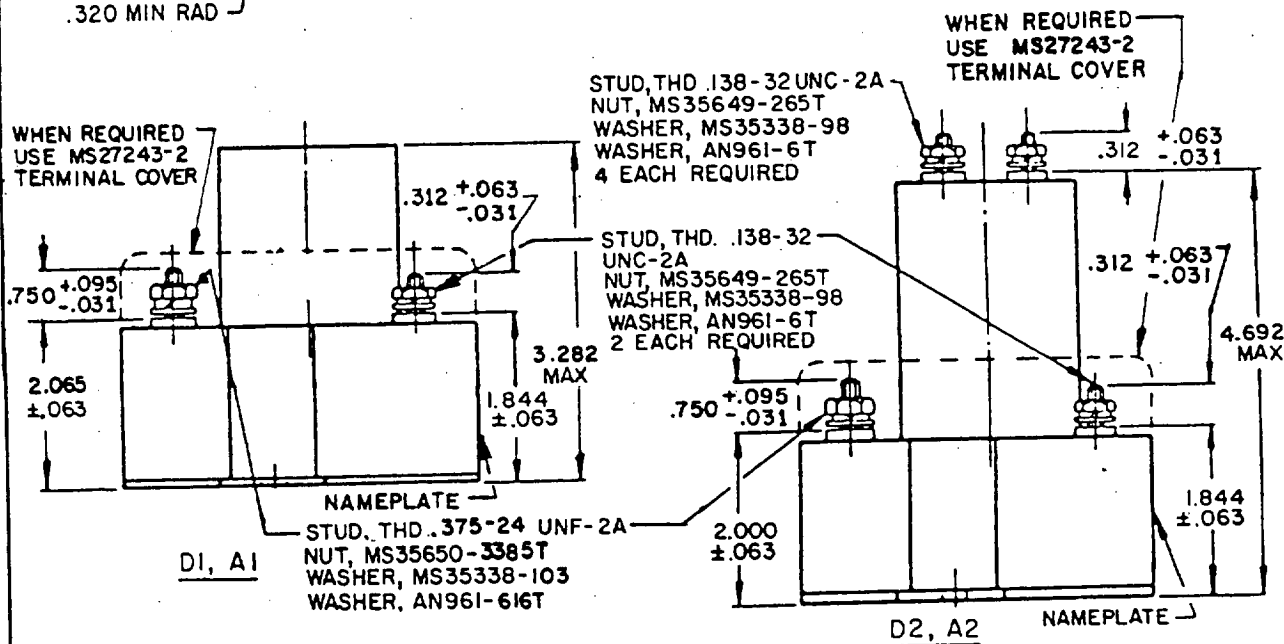
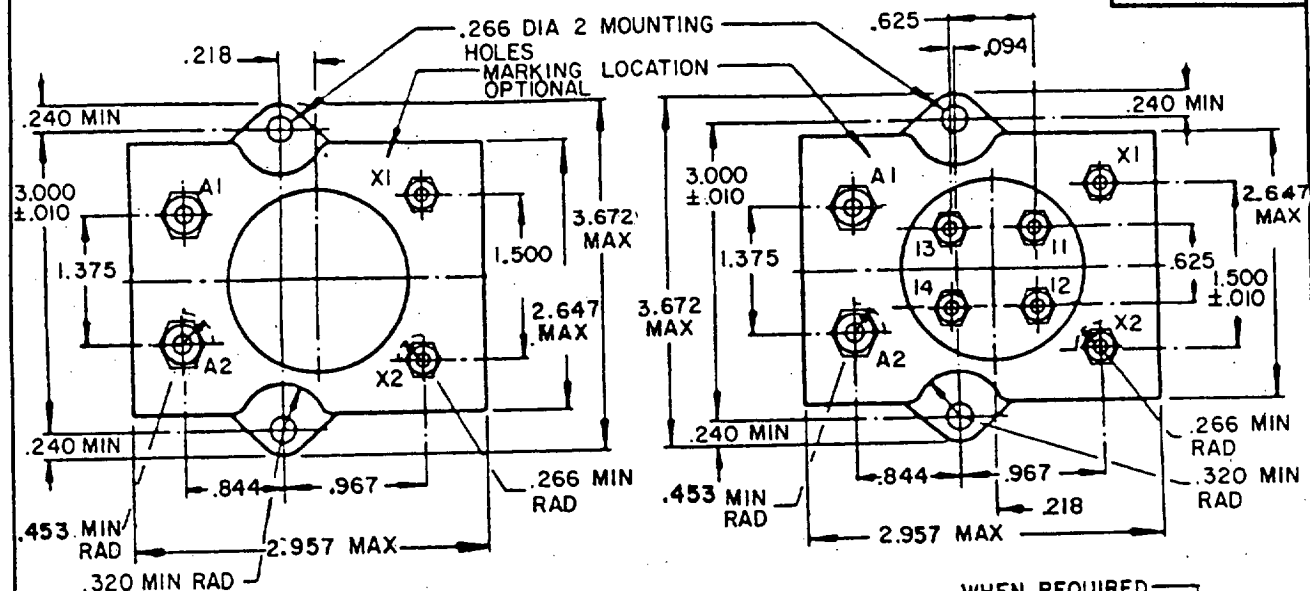
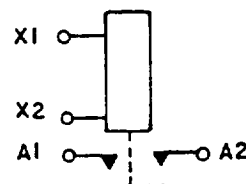


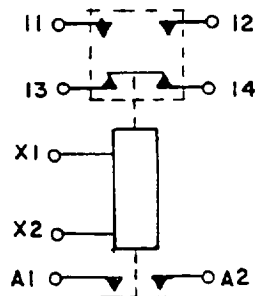
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Inches	mm	Inches	mm
.010	0.25	.750	19.05
.031	0.79	.844	21.44
.063	1.60	.969	24.61
.094	2.39	1.375	34.93
.095	2.41	1.500	38.10
.138	3.51	1.844	46.84
.218	5.54	2.000	50.80
.240	6.10	2.065	52.45
.266	6.76	2.647	67.25
.312	7.92	2.957	75.11
.320	8.13	3.000	76.20
.375	9.53	3.282	83.36
.453	11.51	3.672	93.27
.625	15.88	4.692	119.18



CIRCUIT D1



CIRCUIT D2

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CUSTODIANS: ARMY - NAVY - AS
AIR FORCE - 85 DLA -
Air Force - 11, 99
REVIEW: Navy - AS, EC
USER:
PROJECT NUMBER: 5945-0810-05

TITLE
MILITARY SPECIFICATION SHEET
RELAYS, ELECTROMAGNETIC,
200 AMPERES, 1PST (NO),
TYPE I, HERMETICALLY SEALED

SPECIFICATION SHEET NUMBER
MS24183J 20 Feb 90
SUPERSEDING
MS24183H 24 Sept 82
AMSC N/A FSC 5945

DISTRIBUTION STATEMENT

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THE SOLICITATION: MIL-R-6106.

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are $\pm .031$.
4. This specification sheet takes precedence over documents referenced herein.
5. Referenced documents shall be of the issue in effect on date of invitation for bid.
6. Coil and auxiliary terminals may use additional flat washer for terminal seat.

TABLE I. Part numbers and characteristics. 1/

Part number MS24183-	Type	Coil	Terminal type	Mounting or mating socket	Auxiliary contacts	Maximum weight in pounds <u>2/</u>
D1	I	dc	Stud	Flange	None	1.7

- 1/ A1 and A2 have been cancelled without replacement.
2/ Weights include covers and barriers.

TABLE II. Operating characteristics.

Part number MS24183	Coil data										Time - milliseconds max				1/	
	Coil	Nominal		Max	Max pick-up voltage			Drop out voltage	Hold voltage	Operate	Release	Bounce				
		Volts	Freq		Volts/Amp	Normal	High					Cont	Main	Aux		
		2/	Hz	Ω Res +15% -10			1/	temp test	current test	1/	3/	4/	NO	NC	NO	NC
D1	X1,X2	28	dc	64.5	29	.55	18	21	22.5	7	30	10	2	---	---	---

- 1/ Over the temperature range.
2/ CAUTION: Use of any coil voltage less than nominal coil voltage will compromise the operation of the relay.
3/ With nominal coil voltage.
4/ From nominal coil voltage.

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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/		
		Main		Aux	Main		Aux	Main		Aux
		NO	NC	NO	NC	400 Hz	60 Hz	400 Hz	60 Hz	400 Hz
Resistive	50	200		5	5	200		5		
Inductive	10	100		5	5			5		
Inductive										
Motor	50	200				150				
Lamp		50		.75	.75			.75		
Transfer load										
Mechanical life reduced current	100	50		1.25	1.25	50		1.25		
Intermediate current	50	20		Per spec	10					

1/ Absence of value indicates relay is not rated for 3 phase application.

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OMB No. 0704-0188

Environmental characteristics

Temperature range -70° to +71°C
Maximum altitude rating 80,000 ft
Shock G-level 25 g's
Duration 6-9 ms
Max duration contact opening 2 ms
Vibration - Sinusoidal (see table IV)
Vibration - Random N/A
High shock N/A
Acceleration 15 g's

Electrical characteristics

Insulation resistance Initial 100 megohms
After life or environmental tests 50 megohms
Dielectric strength (sea level) 2-5 seconds
Initial
28 V dc 115 V ac 28 V dc 115 V ac
1,250 V rms 1,500 1,000 V rms 1,125
Coil to case 1,250 V rms 1,500 1,000 V rms 1,125
Aux contacts 1,250 V rms 1,500 1,000 V rms 1,125
All other points 1,250 V rms 1,500 1,000 V rms 1,125
Dielectric strength (altitude) 1 minute

TABLE IV. Vibration levels.

Part number	5-10 Hz	10-55 Hz	55-250 Hz	250-500 Hz	500-1,500 Hz
MS24183-					
D1	.08 DA	.06 DA	10 g's	10 g's	6 g's

TABLE V. Qualification by similarity.

Part number	Loads	Dynamics 1/	Environmental
MS24183-	Type 1	Type 1 ER	
	A B C D E F	A B C	A B C
D1	4	2	4

1/ For Group C testing, each dash number shall be tested to meet vibration requirements.

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