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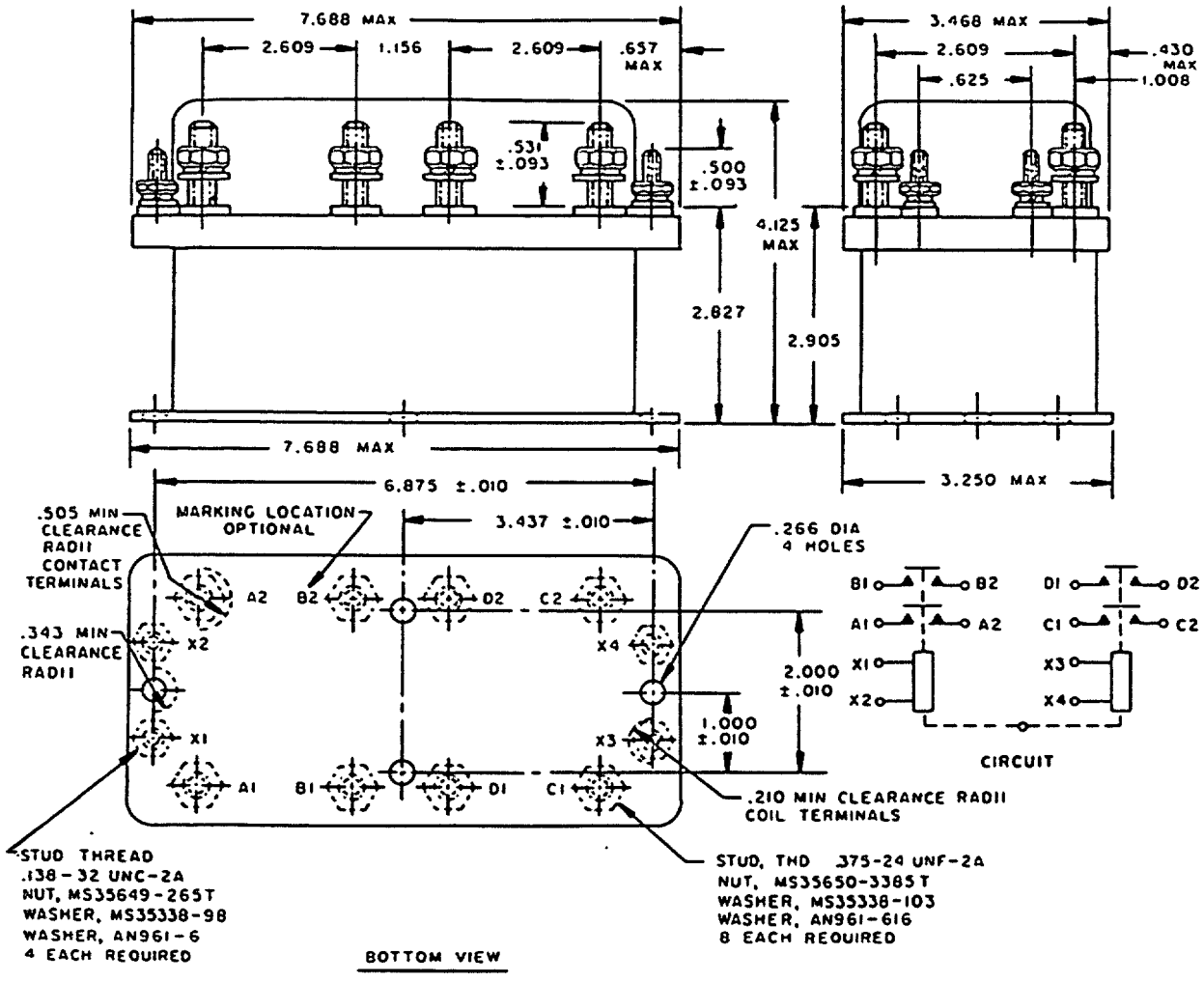
OMB No. 0704-0188

INACTIVE FOR NEW DESIGN AFTER 28 September 1990
NO SUPERSEDING STANDARD



BOTTOM VIEW

PREPARING ACTIVITY: Air Force - 85 CUSTODIANS: ARMY - NAVY - AS AIR FORCE - DLA - REVIEW: USER: PROJECT NUMBER: 5945-0833-02	MILITARY SPECIFICATION SHEET TITLE RELAY, ELECTROMAGNETIC, 100 AMPERES, 2PDT, N.O. TYPE II, NONHERMETICALLY SEALED, MECHANICALLY INTERLOCKED	SPECIFICATION SHEET NUMBER MS25032J 28 Sep 1990 SUPERSEDING MS25032H 4 JUN 82 AMSC N/A FSC 5945
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Inches	mm	Inches	mm	Inches	mm
.010	0.25	.505	12.83	2.827	71.81
.093	2.36	.531	13.49	2.905	73.79
.138	3.51	.625	15.88	3.250	82.55
.210	5.33	.657	16.69	3.437	87.30
.266	6.76	1.000	25.40	3.468	88.09
.343	8.71	1.008	25.60	4.125	104.77
.375	9.52	1.156	29.36	6.875	174.63
.430	10.92	2.000	50.80	7.688	195.28
.500	12.70	2.609	66.27		

NOTES;
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ±.032 (0.81 mm).
4. Additional flat washer may be used for terminal seat.
5. 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.
6. 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.
7. Terminal numbers shall not appear on relay header. There shall be affixed to the relay a suitable legible circuit diagram that identifies each terminal location.
8. Mechanical linkage shall be provided to prevent both relays being closed at the same time.

TABLE I. Dash numbers and characteristics.

Dash number MS25032-	Type	Coil	Terminal type	Mounting	Maximum weight in pounds
D1	II	DC	Stud	Plate	5.5

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MILITARY SPECIFICATION SHEET
TITLE RELAY, ELECTROMAGNETIC, 100 AMPERES, 2PDT, N.O. TYPE II, NONHERMETICALLY SEALED, MECHANICALLY INTERLOCKED

SPECIFICATION SHEET NUMBER
MS25032J
SUPERSEDING
MS25032H 4 JUN 82
AMSC N/A FSC 5945

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TABLE II. Operating characteristics.

MS part number MS25032-	Coil data										Time - (milliseconds maximum)					
	Coil	Nominal			Max		Max pick-up voltage			Hold voltage 2/	Drop-out voltage 2/	Operate 3/	Release 4/	Bounce		
		Volts 1/	Freq. Hz	Res Ω	Volts	Amperes	Normal 2/	High temp test	Cont current test					Main		Aux
														NO	NC	NO	NC
01	X1,X2 Y1,Y2	28	DC	41	29	.80	18	21	22.5	7.0	1.5	40	15	5	---	---	---

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.

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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	60 Hz	400 Hz	60 Hz
Resistive	50	200				150							
Inductive	10	100											
Inductive													
Motor	50	150				100							
Lamp													
Transfer load 2/													
Mechanical life reduced current	100	50											
Intermediate current		Applicable in accordance with MIL-R-6106											

1/ Absence of value indicates relay is not rated for 3 phase application.
2/ Transfer load indicates relay suitable for transfer between unsynchronized ac power supplies at rating indicated.

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Environmental characteristics

Temperature range	-55°C to +71°C
Maximum altitude rating	50,000 ft
Shock G-level	25 g's
Duration	6-9 ms
Max duration contact opening	2 ms
Vibration - sinusoidal (see chart below)	
G-level	g
Frequency range	Hz
Vibration - random	
Applicable spec	N/A
Power spectral density RMS G min	N/A
Frequency range curve	N/A
High shock	N/A
Acceleration	10 g's

Quality conformance inspection

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.

Electrical characteristics

Min insulation resistance, initial	100 megohms
After life or environmental tests	50 megohms
Dielectric strength (sea level)	2-5 seconds

	Initial		After life tests	
	28 V dc	115 V ac	28 V	115 V
Coil to case	1,250	N/A	1,000	N/A
Aux contacts	1,250	N/A	1,000	N/A
All other points	1,250	1,500	1,000	1,125

Dielectric strength (altitude) 1 minute

	28 V dc	115 V ac
Coil to case	500	N/A
Aux contacts	500	N/A
All other points	500	500

Max contact drop initial	.150 volt
After life test	.175 volt
Overload current (N.O.)	1,600 amperes
Rupture current (N.O.)	2,000 amperes
Duty rating	Continuous
RFI specification	

(Applicable to coil circuits of ac operated relays)

Dash number MS25032-	Vibration level				
	5-10 Hz	10-55 Hz	55-250 Hz	250-500 Hz	500-1500 Hz
D1	.08 DA	.06 DA	2 g's	2 g's	

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