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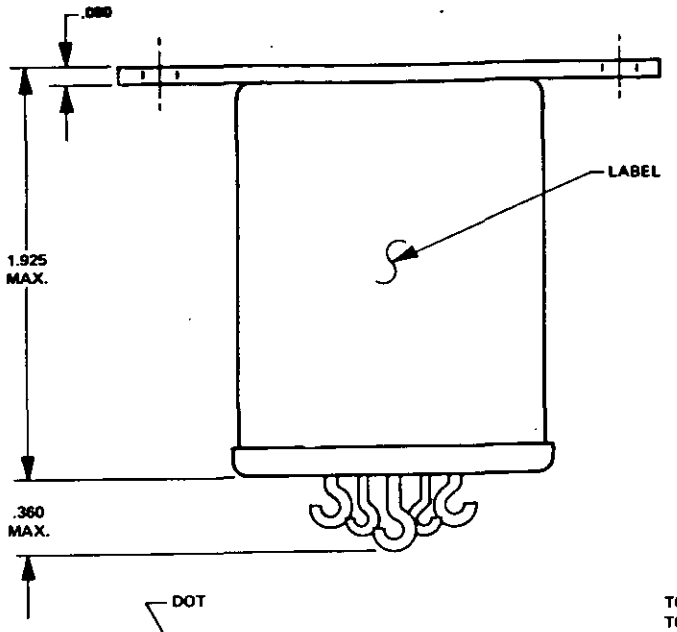
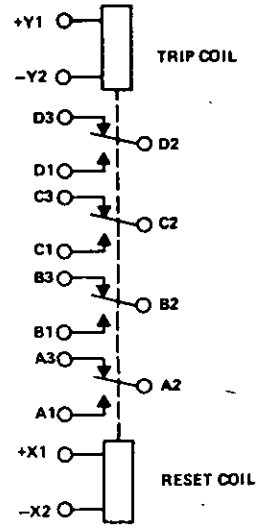
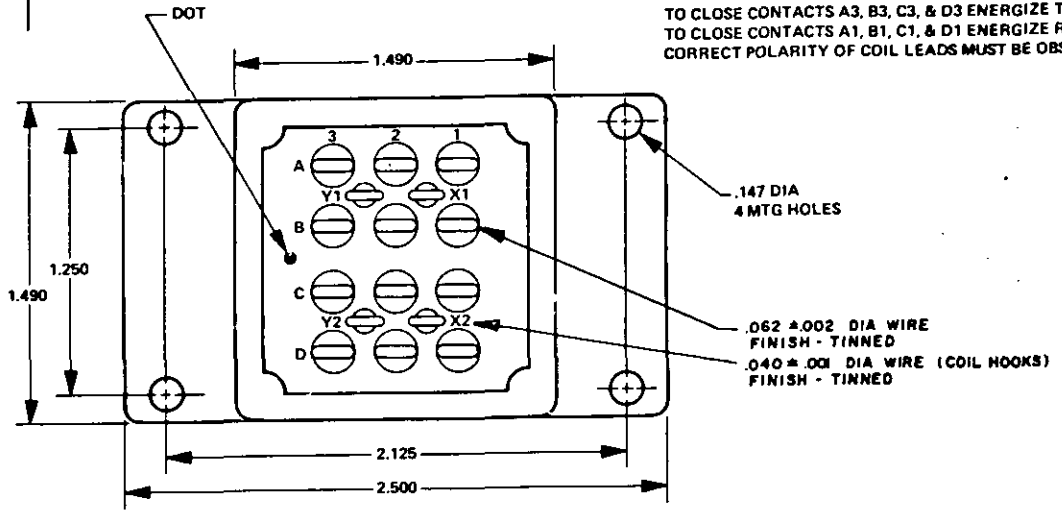
PROJ 5945-1183-2

FED. SUP CLASS
5945





TO CLOSE CONTACTS A3, B3, C3, & D3 ENERGIZE TRIP COIL
TO CLOSE CONTACTS A1, B1, C1, & D1 ENERGIZE RESET COIL
CORRECT POLARITY OF COIL LEADS MUST BE OBSERVED



NOTES:

1. DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ± .010.
2. THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. REFERENCE DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATION FOR BID.
3. TERMINAL NUMBERS NEED NOT APPEAR ON RELAY HEADER PROVIDED THERE IS AFFIXED TO THE RELAY A SUITABLE LEGIBLE CIRCUIT DIAGRAM THAT IDENTIFIES EACH TERMINAL LOCATION SPECIFIED HEREON.
4. RELAY IS MAGNETICALLY LATCHED IN BOTH POSITIONS. CAUTION NOTE TO OBSERVE POLARITY MUST APPEAR ON RELAYS WITH DC COILS.
5. SHOCK, VIBRATION AND ACCELERATION REQUIREMENT APPLICABLE WITH COILS DE-ENERGIZED.

(B) DENOTES CHANGES (B) CANCELED AFTER 31 JULY 1986 NO SUPERSEDING STANDARD

MS PART NUMBER	TYPE	COIL	TERMINAL TYPE	MOUNTING	MAX WEIGHT IN POUNDS
MS25280-1	I	DC	SOLDER HOOK	BRACKET	0.5

APPROVED 24 FEB 1958 REVISED (A) 16 MAR 70 (B) 31 JULY 1986

P.A. NAVY - AS Other Cust AIR FORCE 85	TITLE RELAY, MAGNETIC LATCH, 10 AMP, 4 PDT, TYPE I (HERMETICALLY SEALED) SOLDER TERMINAL, BRACKET MOUNTED	MILITARY STANDARD MS 25280
PROCURMENT SPECIFICATION MIL-R-6106	SUPERSEDES:	SHEET 1 OF 2

DD FORM 1 SEP 63 672

EDITION OF 1 SEP 57 MAY BE USED.

PROJECT NO. 5945-N642

Reviewers :
Navy - AS, EC
Air Force 85, 11

AMSC N/A
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FED. SUP CLASS 5945

OPERATING CHARACTERISTICS

MS PART NO. MS25280-	COIL DATA										TIME-MILLISECONDS - MAX. 4/					
	COIL	Nominal			Max.		Max Pick-up Voltage			Drop Out Voltage 1/	Operate	Release	Bounce			
		Volts	Freq Hz	Res Ω	Volts	Amp	Normal 1/	High Temp Test	Cont Current Test				Main		Aux	
													NO	NC	NO	NC
1	X1,X2 Y1,Y2	28	DC	–	29	0.17	18	19.5	22.5	–	20	–	2	2	–	–

RATED CONTACT LOAD (AMPERES PER POLE) CASE GROUNDED

TYPE OF LOAD	LIFE OPERATING CYCLES x 10^3	28 VDC				115 VAC, 1 PHASE				115/200 VAC, 3 PHASE 2/				See Appropriate Notes
		Main		Aux		Main		Aux		Main		Aux		
		NO	NC	NO	NC	400Hz	60Hz	400Hz	60Hz	400Hz	60Hz	400Hz	60Hz	
RESISTIVE	50	10	10	–	–	10	6	–	–	10	6	–	–	
INDUCTIVE	50													
INDUCTIVE	10	6	6	–	–	6	4	–	–	6	4	–	–	
MOTOR	50	4	4			4	3	–	–	4	3	–	–	
LAMP	50	2	2	–	–	2	1.5	–	–	2	1.5	–	–	
TRANSFER, LOAD														3/
MECHANICAL LIFE REDUCED CURRENT	200	2.5	2.5	–	–	2.5	2	–	–	2.5	2	–	–	
MIN CURRENT	APPLICABLE PER SPECIFICATION													

ENVIRONMENTAL CHARACTERISTICS

TEMPERATURE RANGE ..... –70°C TO +125°C
MAX ALTITUDE RATING ..... 80,000 FT
SHOCK G - LEVEL ..... 50 G
DURATION 11ms
MAX DURATION CONTACT OPENING ..... 10 μS
VIBRATION - SINUSOIDAL
G - LEVEL ..... 10 G
FREQUENCY RANGE ..... 5 - 1500 Hz
ACCELERATION ..... 15 G

ELECTRICAL CHARACTERISTICS

INSULATION RESISTANCE, INITIAL ..... 100 MEGOHMS
AFTER LIFE OR ENVIRONMENTAL TESTS .... 50 MEGOHMS
DIELECTRIC STRENGTH (SEA LEVEL)

	Initial	After Life Tests
COIL TO CASE	1000 VRMS	1000 VRMS
AUX CONTACTS	–	–
ALL OTHER POINTS	1500 VRMS	1125 VRMS

DIELECTRIC STRENGTH (ALTITUDE) 80,000 FT

COIL TO CASE		250 VRMS
AUX CONTACTS		–
ALL OTHER POINTS		350 VRMS

MAX CONTACT DROP INITIAL ..... 0.150 VOLTS
AFTER LIFE TEST ..... 0.175 VOLTS
OVERLOAD CURRENT ..... 40 AMP DC; 80 AMP AC
RUPTURE CURRENT ..... 50 AMP DC; 80 AMP AC
DUTY RATING ..... CONTINUOUS
RFI SPEC ..... N/A
(APPLICABLE TO COIL CIRCUITS OF AC OPERATED RELAYS)

NOTES, APPLICATION

1/ OVER TEMPERATURE RANGE
2/ ABSENCE OF VALUE INDICATES RELAY IS NOT RATED FOR 3 PHASE APPLICATIONS
3/ TRANSFER LOAD INDICATES RELAY SUITABLE FOR TRANSFER BETWEEN UNSYNCHRONIZED AC POWER SUPPLIES AT RATING INDICATED.
4/ WITH NOMINAL COIL VOLTAGE

Reviewers: Navy - AS, EC
Air Force 85, 11

APPROVED 24 FEB 1958 REVISED (8) SEE SHT 1 & 2

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P.A. NAVY - AS	TITLE	MILITARY STANDARD
Other Cust AIR FORCE 85	RELAY, MAGNETIC LATCH, 10 AMP, 4 PDT, TYPE I (HERMETICALLY SEALED) SOLDER TERMINAL, BRACKET MOUNTED	MS 25280
PROCURMENT SPECIFICATION MIL-R-6106	SUPERSEDES:	SHEET 2

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