

OPERATING CHARACTERISTICS

MS part no.	Coil Data										Time milliseconds - Max 2/							
	Nominal		Max		Max pick-up voltage 1/						Drop out voltage 1/	Hold voltage 1/	Operate	Release	Bounce			
	Volts	Freq Hz	Res +15% -10%	Volts	Amp	Normal 1	High temp test	Cont current test	NO	NC					NO	NC		
MS25030-D1B	X1, X2 Y1, Y2	28	DC	66	29	.5	18	21	22.5	1.5	7.0	25	15	5.0	--	--	--	

RATED CONTACT LOAD (AMPERES PER POLE) CASE GROUNDED

TYPE OF LOAD	LIFE OPERATING CYCLES X 10 ⁵	28 VDC				115 VAC, 1 PHASE				115/200 VAC, 3 PHASE 3/				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	50	50	-	-	-	50	-	-	-	-	-	-	-	-
INDUCTIVE	10	50	-	-	-	-	-	-	-	-	-	-	-	-
INDUCTIVE														
MOTOR	50	50	-	-	-	35	-	-	-	-	-	-	-	-
LAMP														
TRANSFER, LOAD														4/
MECHANICAL LIFE REDUCED CURRENT	100	12.5	-	-	-	12.5	-	-	-	-	-	-	-	-
MIN CURRENT	50	5	-	-	-	-	-	-	-	-	-	-	-	-

ENVIRONMENTAL CHARACTERISTICS

TEMPERATURE RANGE -55 TO +71 °C
 MAX ALTITUDE RATING 50,000 FT
 SHOCK G-LEVEL 25 G
 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 N/A
 RMS G MIN
 FREQUENCY RANGE N/A
 CURVE
 HIGH SHOCK N/A
 ACCELERATION 10 G

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 VDC	115VAC	28V	115V
COIL TO CASE	1250	N/A	1000	N/A
AUX CONTACTS	1250	N/A	1000	N/A
ALL OTHER POINTS	1250	1500	1000	1125

 DIELECTRIC STRENGTH (ALTITUDE) 1 MINUTE

	28 VDC	115 VAC
COIL TO CASE	500	N/A
AUX CONTACTS	500	N/A
ALL OTHER POINTS	500	500

 MAX CONTACT DROP INITIAL150 VOLTS
 AFTER LIFE TEST175 VOLTS
 OVERLOAD CURRENT (I.N.O.) 400 AMPS
 RUPTURE CURRENT (I.N.O.) 500 AMPS
 DUTY RATING CONTINUOUS
 RFI SPEC
 (APPLICABLE TO COIL CIRCUITS OF AC OPERATED RELAYS)

NOTES, APPLICATION

- 1/ Over temperature range.
- 2/ With nominal coil voltage.
- 3/ Absence of value indicates relay is not rated for 3 phase applications.
- 4/ Transfer load indicates relay suitable for transfer between unsynchronized AC power supplies at rating indicated.

DASH NO.	VIBRATION LEVEL				
	5-10 Hz	10-55 Hz	55-250 Hz	250-500 Hz	500-1500 Hz
D1B	.08 DA	.06 DA	2 G's	2 G's	

P.A AF-85	TITLE RELAY, 50 AMP, 2PDT NO TYPE II, NON-HERMETICALLY SEALED, MECHANICALLY INTERLOCKED	MILITARY STANDARD
Other Cust NAVY-AS		MS25030
Procurement Specification MIL-R-6106	SUPERSEDES:	PAGE 2 OF 3

User activities: Army.
Navy
Air Force

Reviewer activities: Army.
Navy
Air Force 99, 11

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5945

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Ⓛ Qualification By Similarity.

Part Number	Loads						Dynamics 1/			Environmental		
	Type I			Type I ER			A	X	Y	A	B	C
	A	B	C	D	E	F						
MS25030-D 1B	4						2			4		

1/ All units must be tested, reference amendment 1, appendix 1, MIL-R-6106, construction, internal.

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Other Cust NAVY-AS	RELAY, 50 AMP, 2PDT NO TYPE II, NON-HERMETICALLY SEALED, MECHANICALLY INTERLOCKED	MS25030
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