

Reviewer - Air Force 80

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FED. SUP CLASS 5945		
<p>NOTES:</p> <ol style="list-style-type: none"> 1. Dimensions are in inches. 2. Unless otherwise specified, tolerance is $\pm .015$ (.38 mm). 3. For design feature purposes, this standard takes precedence over procurement documents referenced herein. 4. Referenced documents shall be of the issue in effect on date of invitation for bid. 		
<p>(A) For changes see sheet 1</p>		
P.A. USAF - 85	INTERNATIONAL INTEREST	TITLE RELAY, 150 AMP, 3 PST, N.O., TYPE I, COIL AND CONTACTS INDIVIDUALLY SEALED
Other Cust		MILITARY STANDARD MS 27715 (USAF)
Procurement Specifications MIL-R-6106	SUPERSEDES:	SHEET 1 OF 2

APPROVED 20 Mar 68 REVISED (A) 11 JUNE 1975

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FED. SUP CLASS
5945

MS PART NUMBER	COIL TYPE	TERMINAL TYPE	AUXILIARY CONTACTS	MAX WEIGHT IN POUNDS
MS27715-1	D C	LUG	YES	3.0
MS27715-2	A C			

OPERATING CHARACTERISTICS

MS PART NO.	COIL	COIL DATA									TIME MILLISECONDS - MAX					
		Nominal			Max		Max Pick-Up Voltage ^{1/}			1/ Drop Out Volt.	Operate	Release	Bounce			
		Volts	Freq. HZ	Res Ω	Volts	Amp	Normal	High Temp Test	Cont Current Test				Main		Aux	
													NO	NC	NO	NC
MS27715-1	X	28	DC	-	29	.6	18	-	-	7 ⁺⁰ _{-3.5}	.040	.015	.002	-	.002	.002
MS27715-2	X	115	400	-	124	.2	90	90	90	40 ⁺⁰ ₋₃₀	.040	.050	.002	-	.002	.002

RATED CONTACT LOAD (AMPERES PER POLE)

CASE GROUND

TYPE OF LOAD	LIFE OPERATING CYCLES x 10 ³	28 VDC				115 VAC, 1 PHASE				115/200 VAC 3 PHASE (Main) 2/		240/416 VAC 3 PHASE (Main) 2/		See Appropriate Notes
		Main		Aux		Main		Aux		400Hz	60 Hz	400Hz	60 Hz	
		NO	NC	NO	NC	400Hz	60 Hz	400Hz	60 Hz					
RESISTIVE	50	150	-	10	10	150	100	10	-	150	100	-	-	
INDUCTIVE	50	-	-	-	-	-	-	-	-	-	-	-	-	
INDUCTIVE	10	100	-	10	10	100	-	10	-	100	-	-	-	
MOTOR	50	100	-	5	5	100	-	5	-	100	-	-	-	
LAMP		-	-	3	3	-	-	3	-	-	-	-	-	
TRANSFER, LOAD		-	-	-	-	-	-	-	-	-	-	-	-	3/
MECHANICAL LIFE REDUCED LIFE	200	25	-	2.5	2.5	-	-	-	-	-	-	-	-	
MIN CURRENT	50	10	-	0.10	0.10	10		0.10	-	10	-	-	-	

ENVIRONMENTAL CHARACTERISTICS

TEMPERATURE RANGE -70°C TO 125°C
 MAX ALTITUDE RATING 80,000 FT
 SHOCK G-LEVEL 50 G
 DURATION 6-9 MS
 MAX DURATION CONTACT OPENING 2 MS
 VIBRATION - SINUSOIDAL G-LEVEL 10 G
 FREQUENCY RANGE 5-1500 Hz
 ACCELERATION, CENTRIFUGAL 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	1250	1000
CONTACTS (Main)	2000	1500
CONTACTS (Aux)	1500	1125

DIELECTRIC STRENGTH (ALTITUDE)

	80,000 Ft
COIL	500
CONTACTS (Main and Auxiliary)	700

MAX CONTACT DROP INITIAL - AT 100A 150 VOLTS
 AT 150A 225 VOLTS
 AFTER LIFE TEST - AT 100A 175 VOLTS
 AT 150A 260 VOLTS

OVERLOAD 800 AMPS
 RUPTURE 1000 AMPS
 DUTY RATING CONTINUOUS

NOTES, APPLICATION

- 1/ OVER TEMPERATURE RANGE
- 2/ 115/200 VAC, 240/416 VAC FOR 60 Hz RATINGS. ABSENCE OF RATING INDICATES RELAY MAY NOT BE SUITABLE FOR 3 PHASE APPLICATIONS
- 3/ TRANSFER LOAD INDICATES RELAY SUITABLE FOR TRANSFER BETWEEN UNSYNCHRONIZED AC POWER SUPPLIES AT RATING INDICATED

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Procurement Specifications MIL-R-6106	SUPERSEDES:		SHEET 2 OF 2

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