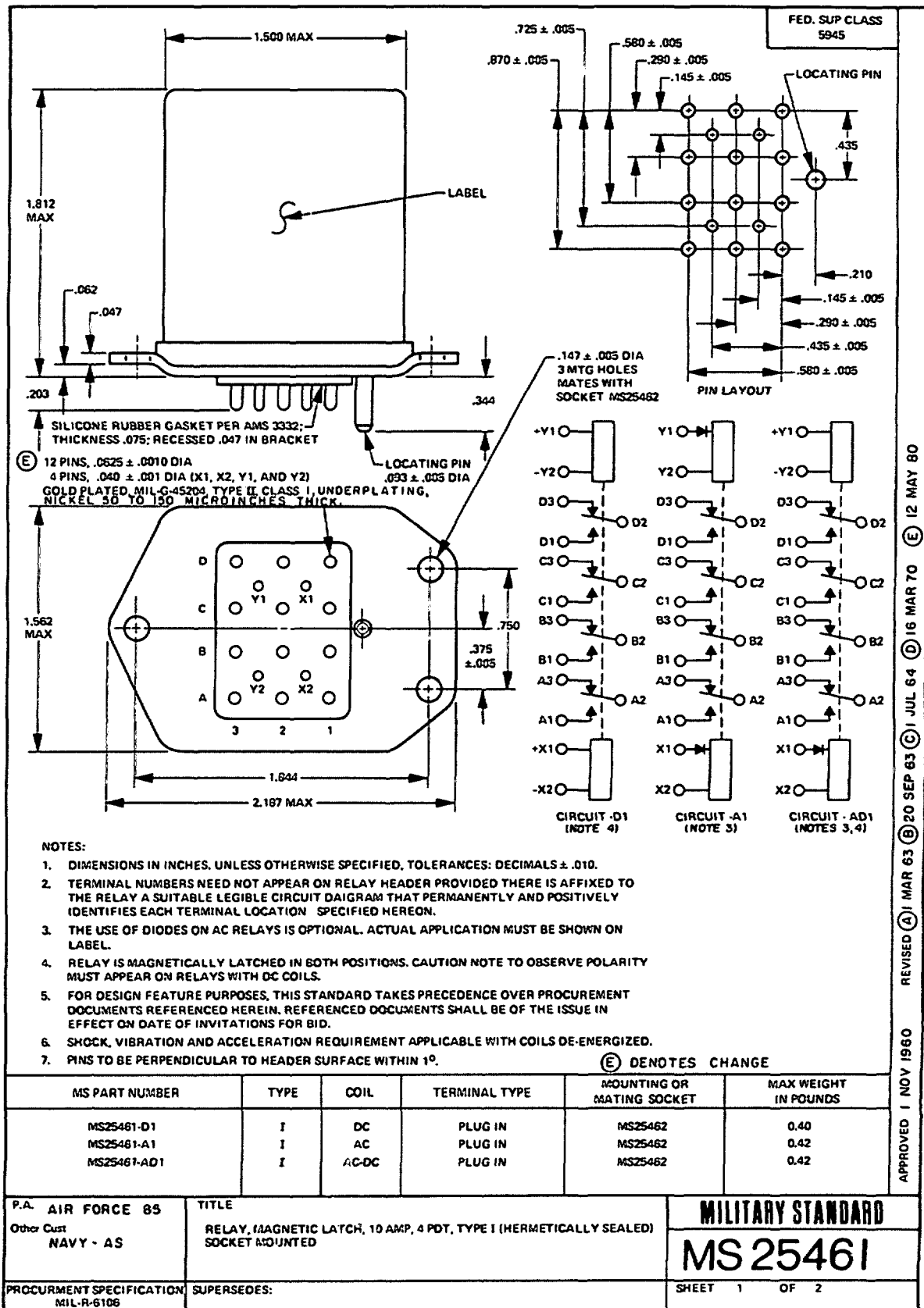


Reviewers:
Navy - AS, EC
Air Force 85, 11



This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

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OPERATING CHARACTERISTICS													FED. SUP CLASS 5945																							
MS PART NO. MS25461-	C O I L	COIL DATA									TIME-MILLISECONDS - MAX. 6/																									
		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																				
D1	X1,X2 Y1,Y2	28	DC	—	29	0.17	18	18	19.8	N/A	25	N/A	2	2	—	—																				
A1	X1,X2 Y1,Y2	115	400 4/	—	122	0.07	90	90	95	N/A	25	N/A	2	2	—	—																				
AD1	X1X2	115	400 4/	—	122	0.07	90	90	95	N/A	25	N/A	2	2	—	—																				
	Y1Y2	28	DC	—	29	0.17	18	18	19.8	N/A	25	N/A	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	100	10	10	—	—	10	6	—	—	10	6	—	—																							
INDUCTIVE	100																																			
INDUCTIVE	20	6	6	—	—	10	4	—	—	10	4	—	—																							
MOTOR	100	4	4	—	—	4	3	—	—	4	3	—	—																							
LAMP	100	2	2	—	—	2	1.5	—	—	2	1.5	—	—																							
TRANSFER, LOAD														3/																						
MECHANICAL LIFE REDUCED CURRENT	400	2.5	2.5	—	—	2.5	2	—	—	2.5	2	—	—																							
MIN CURRENT		APPLICABLE PER SPECIFICATION																																		
<div> <div> 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 </div> <div> ELECTRICAL CHARACTERISTICS INSULATION RESISTANCE, INITIAL 100 MEGOHMS AFTER LIFE OR ENVIRONMENTAL TESTS 50 MEGOHMS DIELECTRIC STRENGTH (SEA LEVEL) <table border="1"> <thead> <tr> <th></th> <th>Initial</th> <th>After Life Tests</th> </tr> </thead> <tbody> <tr> <td>COIL TO CASE</td> <td>1000 VRMS</td> <td>1000 VRMS</td> </tr> <tr> <td>AUX CONTACTS</td> <td>—</td> <td>—</td> </tr> <tr> <td>ALL OTHER POINTS</td> <td>1500 VRMS</td> <td>1125 VRMS</td> </tr> </tbody> </table> DIELECTRIC STRENGTH (ALTITUDE) 5/ <table border="1"> <thead> <tr> <th></th> <th>80,000 FT</th> </tr> </thead> <tbody> <tr> <td>COIL TO CASE</td> <td>500 VRMS</td> </tr> <tr> <td>AUX CONTACTS</td> <td>—</td> </tr> <tr> <td>ALL OTHER POINTS</td> <td>500 VRMS</td> </tr> </tbody> </table> MAX CONTACT DROP INITIAL 0.150 VOLTS AFTER LIFE TEST 0.175 VOLTS OVERLOAD CURRENT 40 AMP DC 60 AMP AC RUPTURE CURRENT 50 AMP DC 80 AMP AC DUTY RATING CONTINUOUS RFI SPEC MIL-STD - 461 (APPLICABLE TO COIL CIRCUITS OF AC OPERATED RELAYS) </div> </div>																		Initial	After Life Tests	COIL TO CASE	1000 VRMS	1000 VRMS	AUX CONTACTS	—	—	ALL OTHER POINTS	1500 VRMS	1125 VRMS		80,000 FT	COIL TO CASE	500 VRMS	AUX CONTACTS	—	ALL OTHER POINTS	500 VRMS
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AUX CONTACTS	—																																			
ALL OTHER POINTS	500 VRMS																																			
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/ MS25461-A1 AND AD1 MAY BE USED ON 60 Hz IF MAX. AMBIENT TEMPERATURE IS LIMITED TO 85 DEG C. MAX. COIL CURRENT WILL BE 0.077 AMP. 5/ WHEN MOUNTED IN MATING SOCKET. 6/ WITH NOMINAL COIL VOLTAGE																																				
P.A. AIR FORCE 85 Other Cust NAVY - AS		TITLE RELAY, MAGNETIC LATCH, 10 AMP, 4 PDT, TYPE I(HERMETICALLY SEALED) SOCKET MOUNTED										MILITARY STANDARD MS25461																								
PROCUREMENT SPECIFICATION MIL-R-6106		SUPERSEDES:										SHEET 2																								

APPROVED 1 NOV 1960 REVISED ① SEE SHTS 1 & 2 ② FOR CHANGES SEE SHEET 1