

MILITARY SWITCHES - SELECTOR GUIDE



CHARACTERISTICS	MULTIPOLE SELECTOR SWITCHES							SNAP-ACTION SWITCHES			
	TYPE AF	STYLE JL	STYLE JR	STYLE JR	STYLE JM	STYLE JK	SERIES 24G	CLASS ISR	CLASS 3SR	CLASS 6SR	CLASS 20SR
MILITARY SPECIFICATION	MIL-S-6807	MIL-S-21604	MIL-S-21604	MIL-S-6807	MIL-S-21604	MIL-S-21604	MIL-S-18396	MIL-S-15291	MIL-S-15291	MIL-S-15291	MIL-S-15291
MILITARY SPECIFICATION SHEETS	MS-25002 MS-21994 MS-21995	MIL-S-21604/3	MIL-S-21604/5 MIL-S-21604/6 MIL-S-21604/7	MS-90547	MIL-S-21604/4	MIL-S-21604/2		MIL-S-15291/1 MIL-S-15291/2 MIL-S-15291/3	MIL-S-15291/5 MIL-S-15291/6 MIL-S-15291/7	MIL-S-15291/8 MIL-S-15291/9 MIL-S-15291/10	MIL-S-15291/11 MIL-S-15291/12 MIL-S-15291/13
QUALIFIED PRODUCTS LIST (QPL)	QPL-6807	QPL-21604	QPL-21604		QPL-21604	QPL-21604		QPL-15291	QPL-15291	QPL-15291	QPL-15291
SECTIONS	1 to 10	1 to 10	1 to 25	1 to 25	1 to 25	1 to 15	1 to 10	1 to 12	1 to 12	1 to 8	1 to 8
POLES	1 to 20	1 to 20	1 to 50	1 to 50	1 to 75	1 to 30	1 to 20				
POSITIONS	2 to 8	2 to 8	2 to 8	2 to 8	2 to 12	2 to 16	2 to 8	2 to 4	2 to 4	2 to 4	2 to 4
POSITION ANGLE OF THROW	45°	45°	45°	45°	30°	22½°	45°	90°	90°	90°	90°
ELECTRICAL RATINGS (25°C)											
Continuous Rating							20A-500V	10A-125V	30A-500V	60A-500V	200A-500V
Interrupting Ratings											
115VAC, Resistive	5A										
115VAC, .5 pf	2A										
125VAC, Resistive (Inductive)		5A (.8 pf)	10A (.8 pf)	5A (.5 pf)	7.5A (.8 pf)	5A (.8 pf)	20A	10A (.75 pf)	30A (.75 pf)	60A (.75 pf)	200A (.75 pf)
250VAC, Resistive (Inductive)							10A	10A (.75 pf)	30A	60A	200A
500VAC, Resistive (Inductive)							5A	5A (.75 pf)	30A (.75 pf)	60A (.75 pf)	200A (.75 pf)
1.5VDC Resistive											
28VDC Resistive	5A										
28VDC Inductive	2.5A			10A							
28VDC Lamp Load	2A			5A							
50VDC Resistive				4A							
120VDC Resistive (Inductive)								10A (.24 hy)	30A*	60A*	200A*
250VDC Resistive (Inductive)								5A (.24 hy)	15A*	30A*	200A*
350VDC Resistive (Inductive)								2A (.24 hy)			
Overload (50 operations)	30A-28VDC										
Dielectric Strength	1230 VRMS	1200 VRMS	1200 VRMS	1250 VRMS	1200 VRMS	1200 VRMS	7.5A-500VAC	60A-125VAC	180A-500VAC	360A-500VAC	2000 VRMS
Insulation Resistance	100 megohms	200 megohms	200 megohms	100 megohms	200 megohms	200 megohms	2000 VRMS	1200 VRMS	2000 VRMS	2000 VRMS	2000 VRMS
Contact Resistance	20 milliohms	10 milliohms	10 milliohms	20 milliohms	10 milliohms	10 milliohms	100 megohms	200 megohms	200 megohms	200 megohms	200 megohms
Life (Electrical operations)	10,000	40,000	40,000	40,000	40,000	40,000	100 milliohms	20 milliohms	10 milliohms	5 milliohms	1.5 milliohms
(plus mechanical operations)		40,000	40,000	60,000	40,000	40,000	100,000	10,000	20,000	6,000	6,000
Thermal EMF (max)								20,000	10,000	4,000	4,000
Capacitance (max)								* Reduced Life (see Specification)			
MECHANICAL CHARACTERISTICS											
Torque	2 to 10 lb-in	9 to 16 lb-in	25 to 55 lb-in	18 to 58 lb-in	20 to 50 lb-in	15 to 35 lb-in					
Stop Strength	25 lb-in	30 lb-in	100 lb-in	25 lb-in	100 lb-in	100 lb-in					
Mounting Strength	50 lb-in			100 lb-in							
Minimum Temperature	-55°C			-55°C							
Maximum Temperature	85°C			85°C							
Terminal Strength	10 lb	5 lb	5 lb	10 lb	5 lb	5 lb					
Thermal Shock											
MIL-STD-202 Method 107	Complies			Complies							
Vibration											
MIL-STD-202 Method 204	Complies			Complies							
MIL-STD-167 Type 1											
MIL-1-983		Complies	Complies		Complies	Complies	Complies	Complies	Complies	Complies	Complies
Shock											
MIL-STD-202 Method 213	Complies			Complies							
MIL-STD-202 Method 207	Complies			Complies							
MIL-S-901 Grade A Class 1		Complies	Complies		Complies	Complies	Complies	Complies	Complies	Complies	Complies
Temperature Rise	30°C	15°C	30°C	30°C	30°C	30°C	65°C	50°C	50°C	50°C	50°C
Moisture Resistance											
MIL-STD-202 Method 106	5 megohms			5 megohms							
Salt Spray (Corrosion)											
MIL-STD-202 Method 101	Complies			Complies							
Sand and Dust											
MIL-STD-202 Method 110	Complies			Complies							
Explosion-MIL-STD-202 Method 109	Complies			Complies							
Actuate Time											
Transfer Time											