

Typical Characteristics

Specifications

- Design to meet the general requirements of MIL-R-6106 Type II continuous Duty Unsealed
- Contacts are covered & gasketed
- Double break contacts
- All units are thermal breaker compatible at rated relay resistive load
- Some models available with auxiliary circuits
- Gold-plated auxiliary contacts for low-level applications available
- Auxiliary contacts ratings:
 28 Vdc: 5 amps resistive
 3 amps inductive
 2.5 amps lamp

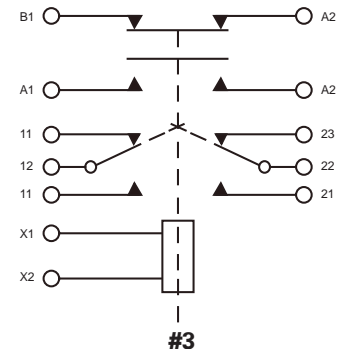
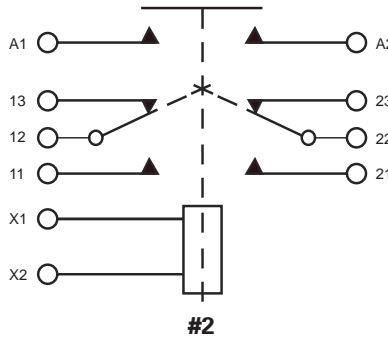
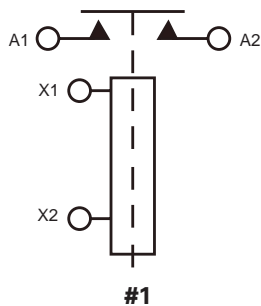
Ratings Per MIL-R-6106:

- Salt spray, humidity, acceleration, sand & dust, intermediate current
- Vibration:
 5 to 10 Hz -.08 DA
 10 to 55 Hz -.05 DA
 55 to 500 Hz -2.0 g's
- Shock: 25 g's (6-9 MS 1/2 sine wave)
- Life: (-55 to 71°C)
 50,000 cycles electrical at full rated load
 100,000 cycles mechanical tested at 25% rated load
- Altitude: 50,000 feet

Part Number	Rated Contact Load				Rupture Current	Contact Rating			
	28 Vdc					Intermittent Power			
	Res.	Ind.	Motor	Intermediate		28 Vdc			
						15 Minute	5 Minute	1 Minute	Max. Inrush
SM100D2	100	80	100	4	1000	130	150	200	600
SM100D3	100	80	100	4	1000	130	150	200	600
SM150D1	150 ^⑤	50	150 ^①	15	1200	195	225	300	900
SM150D2	150 ^⑤	50	150 ^①	15	1200	195	225	300	900
SM150D3	150 ^⑤	50	150 ^①	15	1200	195	225	300	900
SM150D4	150 ^⑤	50	150 ^①	15	1200	195	225	300	900
SM150D5 ^③	150	50	150 ^①	15	1200	195	225	300	900
SM200D1	200	100	200	20	2000	260	300	400	1200
SM200D2	200	100	200	20	2000	260	300	400	1200
SM200D3	200	100	200	20	2000	260	300	400	1200
SM400D1	400	100	400	40	4000	520	600	800	2400
SM400D2	400	100	400	40	4000	520	600	800	2400
SM400D3	400	100	400	40	4000	520	600	800	2400
SM1000D11 ^④	1000	—	—	50	6000	1200	1500	2000	2500 ^⑥

① 600 Amp make, 200 Amp break
 ② Duty cycle: 1 minute on, 1 minute off; 1 minute on, 20 minutes off
 ③ Maximum vibration 2000 Hz 2 g's
 ④ Duty cycle: 1.5 minutes on, 3 minutes off
 ⑤ Will carry 200 Amps at 20% on duty cycle per minute
 ⑥ Maximum inrush provided coil voltage as noted is maintained
 ⑦ Operate time at 28 Vdc & 25 deg. C.
 ⑧ Contact bounce is average of 5 consecutive ratings.
 ⑨ Available in normal closed circuit.
 ⑩ 1 sec. on, 60 sec. off

Circuit Diagrams



Typical Characteristics

(Figures 1 through 8)
 (For additional details, contact your local Labinal Power Systems Technical Sales Representative)

- Power Contact Voltage Drop:
 Initial 0.15 V After Life Test: 0.175 V
- Insulation Resistance: Initial 200 Meg ohm.
 After Life Test: 100 Meg ohm

Dielectric Withstanding Voltage:
2.5 Seconds Sea Level
 Initial: 1250 V
 After Life Test: 1000 V
 Power Contacts: 650 V

50,000 Feet 60 Seconds
 Initial & After Life Test: 500 V