"A" Series Originally Designed To Meet the Following MIL Specifications

Test Requirement	MIL Specification
1. Strength of Terminal	1 lb. — solder lug
2. Strength of Actuating Lever Pivot and Stop	10 lbs. & 8 lbs. throughout range
3. Strength of Mounting Means	15 lbs. in. torque on bushing
4. Dielectric (Sea Level) Indication Dielectric (Altitude)	1000 VAC Group C 750 VAC after electrical endurance. 500 μA max. leakage
5. Contact Voltage Drop	2.5 millivolt initial 5.0 millivolt after mechanical endurance @ 2-6 VDC 0.1 amp.
6. Temperature Rise	50°C rise @ rated resistance after endurance test current
7. Short Circuit	10 operations make and carry 100 amps resistive load @ lowest DC volts
8. Mechanical Life	20K operations at specified high and low temperatures
9. Electrical Endurance	10K operations at specified high and low temperatures
10. Overload	50 operations @ 150% of rated resistive load
11. A) Electrical Endurance at Altitude	No requirement
B) Electrical Endurance at Sea Level	10K operations resistive load @ room temperature 10K operations inductive load @ room temperature 10K operations lamp load @ room temperature Performed on different test samples
12. Vibration	Method 204 of MIL-STD-202, test condition A .06 D.A. or 10 G's 10-500 Hz 10 usec. max. chatter
13. Shock	Fuse-method 213 or MIL-STD @75 G's 10 usec. max, chatter
14. Salt Spray Test Upon Completion	48 hours — method 101 of MIL-STD-202, test condition B 10 operations resistive load (toggle sealed switches only)
15. Moisture Resistance Test Upon Completion	Method 106 of MIL-STD-202 100 VDC potential between current carrying parts and panel
16. Sand & Dust	Method 110 of MIL-STD-202, test condition B 6 hours @ 23°C 2.5K operations mechanical life (toggle sealed switches only)
17. Explosion	MIL-STD-202 method 109, maximum rated DC inductive load (toggle sealed switches only)
18. Sealing	Toggle seal — 5 operations under 0.5 inches of H_2O above top of bushing
19. A) Toggle Seal B) Bushing Seal	No requirement
20. Temperature Operation	Mechanical life, -25°C to +71°C
21. Life Low Cur. Level	No requirement
22. Fungus	No requirement
23. Intermediate Current	10K operations, 50 milliamps @ 10 VDC resistive load @ 20,000 feet altitude @ room temperature
24. Thermal Shock	Method 107 of MIL-STD-202 test condition A 5 cycles @ -55°C/+85°C