

Application Notes:

101
102
103F
007

Non-latching, solenoid design power contactor

Qualified to	MIL-PRF-6106 MS24166-D1
Contact Arrangement	1 PST N.O.

PRINCIPLE TECHNICAL CHARACTERISTICS

• Contacts rated at	50 Amps / 28 Vdc
• Weight	267g max.
• Dimensions	70mm x 52mm x 62mm max.
• Special units available upon request.	

CONTACT ELECTRICAL CHARACTERISTICS

Contact rating per pole and load type [1]	Load current in Amps
	28 Vdc
Resistive	50
Inductive	50
Motor	50
Lamp	25
Overload	400
Repture	500
minimum current (Amps)	5

COIL CHARACTERISTICS (Vdc)

Nominal operating voltage	28
Maximum operating voltage	29
Maximum pick-up voltage	18
Maximum drop-out voltage	7
Coil resistance ohms $\pm 10\%$ at +25° C	94 Ω
Maximum coil current at +25° C	0.35 Amp

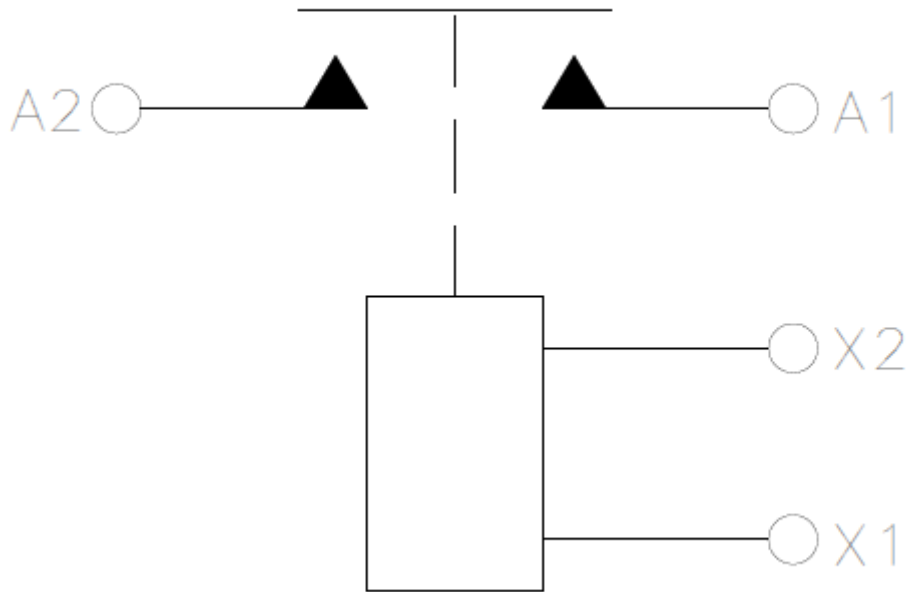
GENERAL CHARACTERISTICS

Temperature range	-55°C to +71°C
Dielectric strength at sea level	
- Circuits to ground and circuit to circuit	1250 Vrms / 50 Hz
- Across open contacts and coil to ground	1250 Vrms / 50 Hz
Dielectric strength at altitude 50,000 ft	500 Vrms / 50 Hz
Insulation resistance at 500 Vdc	> 100 M Ω
Sinusoidal vibration	2G / 55 to 500 Hz
Shock	25G
Maximum contact opening time under vibration and shock	2 ms
Operate time at nominal voltage	20 ms max
Release time at nominal voltage	10 ms max

Notes

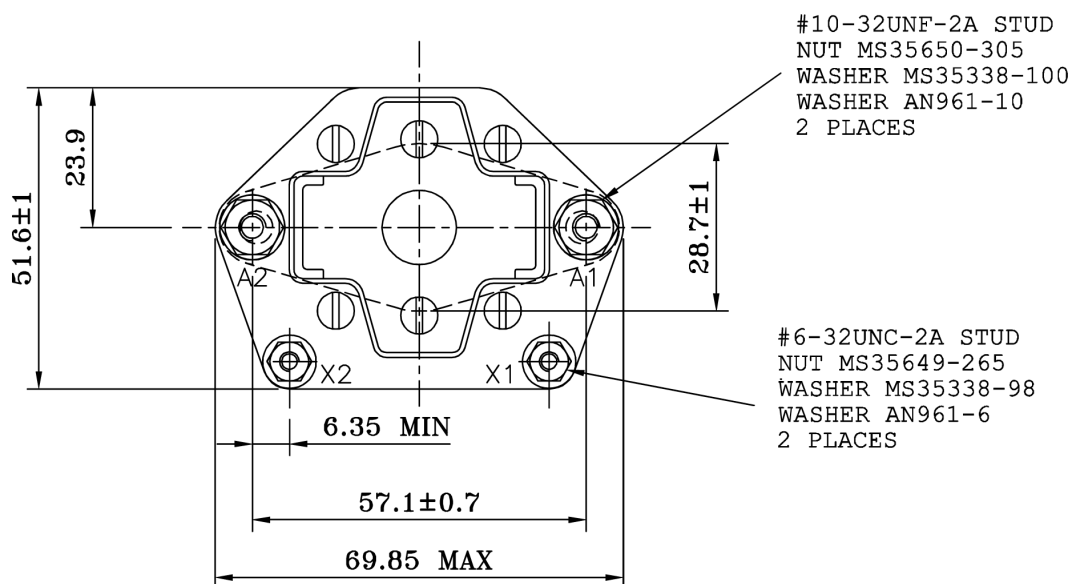
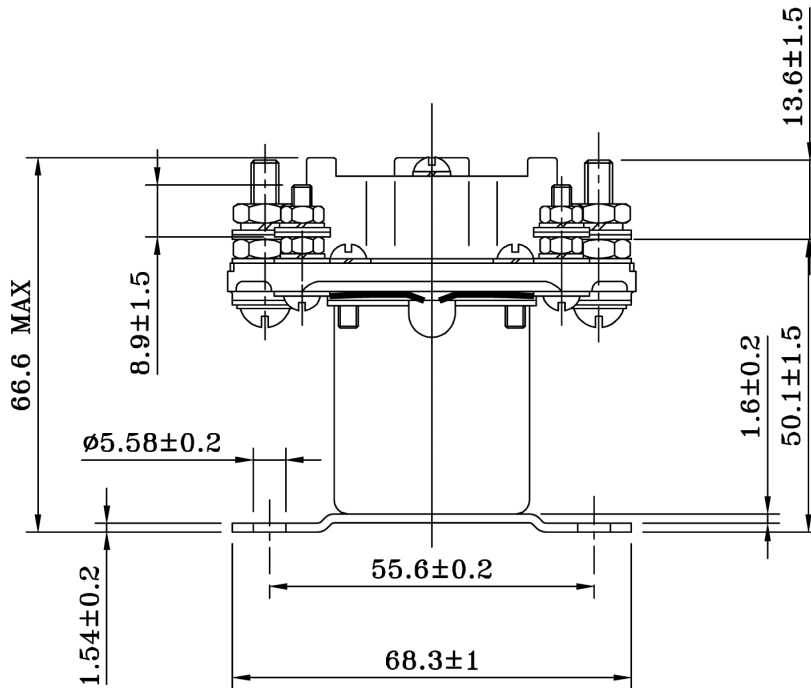
- Applicable specification: MIL-PRF-6106
- Applicable standard number: MS24166-D1
- Special units available upon request

SCHEMATIC DIAGRAM

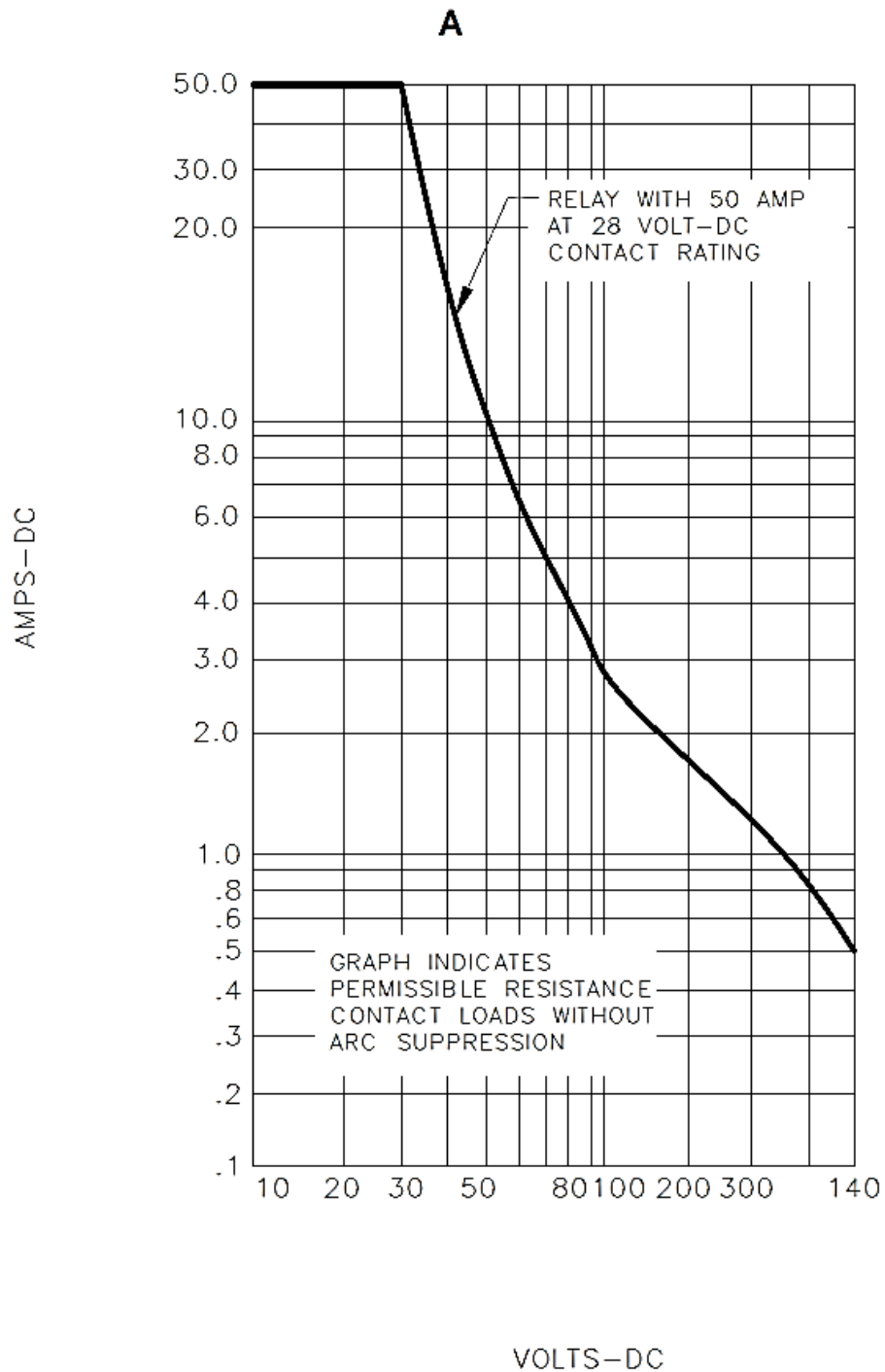


MOUNTING STYLES

Dimensions in millimeters
Tolerances, unless otherwise specified: $\pm 0.079\text{mm}$



TYPICAL CHARACTERISTICS GIVEN AS AN INDICATION



A Curve for DC voltages above normal rating