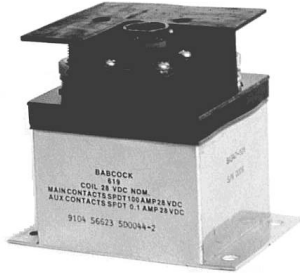


Contactors 100 Amps • SPDT 500 MS Time Delay To MIL-PRF-6106



Contactors 100 Amps • SPDT 500 MS Time Delay To MIL-PRF-6106

SPECIFICATIONS

GENERAL

Contact Arrangement SPDT (1 Form C)
Weight 18 oz approx.
 Designed to meet the requirements of MIL-PRF-6106

Release Time 50 ms max
Contact Bounce Time 3 ms max
 @ rated contact load, 28 VDC

PERFORMANCE

Contact Ratings (Note 1):

Power Contacts:

Resistive 100 Amps @ 28 VDC or
 115/208V 400 Hz
 Inductive 100 Amps @ 115/208V 400 Hz
 50 Amps @ 28 VDC
 Motor 50 Amps @ 28 VDC or
 115/208V 400 Hz
 Lamp 20 Amps @ 28 VDC or
 115/208V 400 Hz

Auxiliary Contacts:

Configuration SPDT
 Current Rating 5 Amps @ 28 VDC

Coil Data: (@ 28 VDC and 25°C)

Nominal Coil Voltage 28 to 30 VDC
 Pull-In Voltage (@ 85°C) 20 VDC max
 Drop-out Voltage 1.5 to 8.0 VDC
 Coil Resistance 152 Ohms

ENVIRONMENTAL

Temperature Range -55°C to +85°C
Altitude 50,000 ft
Vibration (Note 2) 10 G's 50 - 500 Hz
 5 G's 500 - 2,000 Hz
Shock (Operating)(Note 2) 25 G's 6 ms
Acceleration 15 G's

ELECTRICAL CHARACTERISTICS

Duty Cycle Continuous
Insulation Resistance 100 megohms
 @ 500V 25°C

Dielectric Strength:

Sea Level:
 Contact to Case 1,250 VRMS
 Contact to Coil 1,250 VRMS
 Coil to Case 1,250 VRMS
 Across Open Contacts 1,250 VRMS
 50,000 Feet:
 All Points 700 VRMS

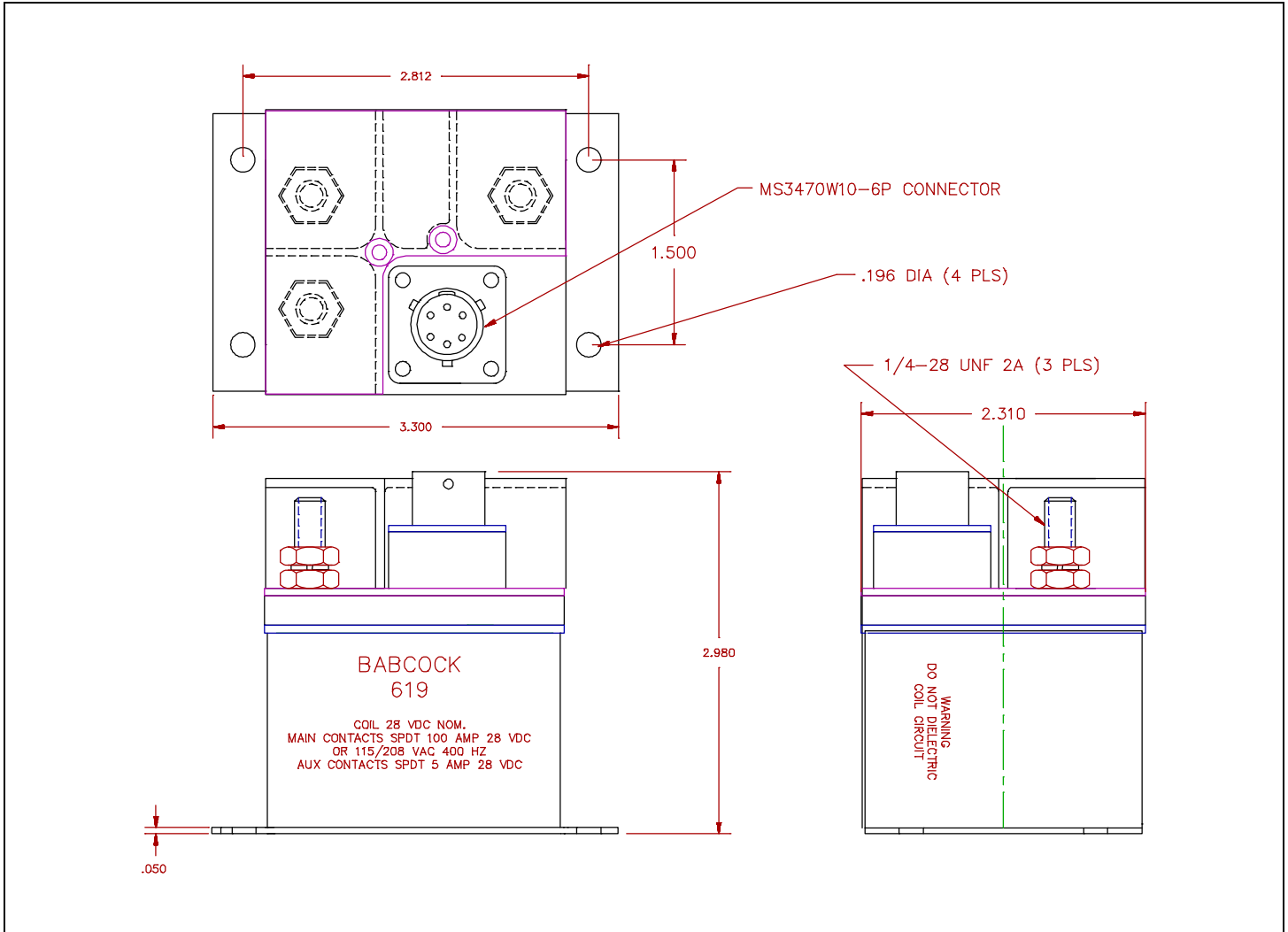
Life 50,000 cycles @ rated loads
 25,000 cycles Lamp load life
 10,000 cycles Transfer load
 100,000 cycles Mechanical
Rupture (main contacts) 1000 Amperes
Overload (main contacts) 800 Amperes
Operate Time 500 ms min

Notes

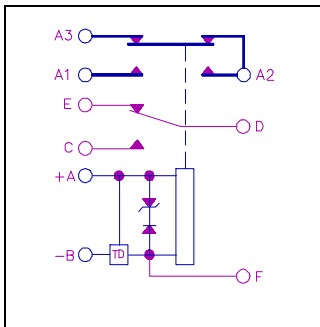
- For other main contact or auxiliary contact ratings consult the factory.
- For applications requiring higher shock and vibration, consult the factory.

The 619 Contactor is designed to meet the general requirements of MIL-PRF-6106. Solid state control and logic is protected against inadvertent operation from noise, transients, or RFI/EMI and all solid state components are JANTX rated or better. This power contactor features a gasket sealed, vented, construction with a light weight aluminum housing. The power terminals are Silver plated Beryllium copper to prevent any possibility of corrosion during use. All auxiliary switches are QPL listed MS-24547 types.

OVERALL DIMENSIONS



SCHEMATIC



GENERAL NOTES

- Unless otherwise specified, all tests made at nominal coil voltages, @ 25°C.
- For special coil variations, switching configurations, terminal styles, mounting types, time delays, or other control circuits consult the factory.
- Unless otherwise specified, tolerances on decimal dimensions are $\pm .010$ ".
- Specifications contained herein are subject to change without notice.



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