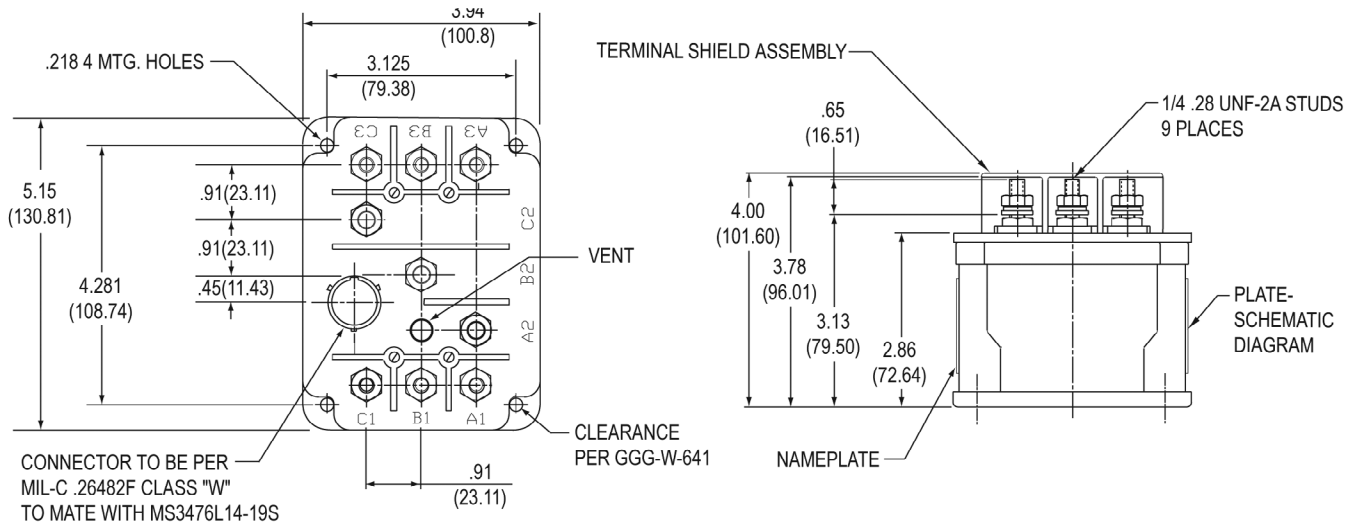


Approximate Dimensions



Engineering Data

Specifications

- Designed to MIL-R-6106/42
- All moving parts, contacts, and magnet coil gasket sealed & vented
- Operable at altitudes to 50,000 feet
- Operating Temperature: -55°C to +71°C
- Altitude: 50,000 ft. Max.
- Vibration:
 - Per MIL-E-5400
 - Curve IV, 5-2000 Hz
- Shock: 30 g's, Half Sine, 11 MS Duration
- Acceleration: 6 g's
- Maximum weight: 3.15 Lbs/1425.31 gm
- Overload Current: 1080 Amps
- Rupture Current: 1350 Amps

Electrical Characteristics

Insulation Resistance (Initial):..... 200 Megohms
 After Life or Environmental Tests:..... 100 Megohms

Contact Voltage Drop (Initial):..... MAIN 0.175 V max. - .150 V avg
 After Life Test 0.200 V max. - .175 V avg

Contact Voltage Drop (Initial)..... AUX 0.400 V max. - .300 V avg
 After Life Test 0.450 V max. - .400 V avg
 At 5 Amps

Overload Current (Main) 1080 amp

Rupture Current (Main) 1350 amp

Duty Rating Continuous

Coil Suppression to meet requirements of MIL-E-6051D(1)

Application Notes

Mechanically interlocked contact circuits prevent inadvertent operation of the alternate contact circuits. These units are suitable for load transfer typically from ground support to on-board power.

Dielectric Strength

Description	Test Voltage Vrms					
	At Sea Level (2-5 Sec.)				At Altitude (60 Sec.)	
	Initial		After Life		28 Vdc	115 Vac
28 Vdc	115 Vac	28 Vdc	115 Vac			
Coil to Case	1250	—	1000	—	500	—
Aux. Contacts	1250	1500	1000	1125	500	500
All Other Points	NA	1800	NA	1350	NA	700

Operating Characteristics

Coil Data							** Drop-Out Voltage	Time Milliseconds Max.				
Nominal	Max *	Amp		Pick-Up Volts				Coil Voltage			Bounce Time at 28 Vdc	
Volts	Volt	In Rush	Cont.	At 25°C	Hi Temp	Count Cur.		18 Vdc	23 Vdc	30 Vdc	Main	Aux.
								Operate	Release	Transfer		
28DC	30	5	1	15DC	18DC	22.5 DC	7+0/-6	50	35	10	2	4

* Pick-Up: Coil will operate at the voltages shown and higher.

** Drop-Out: Coil will drop out at 1 Vdc and may drop out at any voltage from 7 Vdc and below.

Rated Contact Load — (Amps per pole) Case Grounded

Type of Load	Life Operating Cycles X10 ³	28 Vdc				115 Vac 1 Phase 400 Hz				115/200 Vac 3 Phase 400 Hz			
		Main		Aux.		Main		Aux.		Main		Aux.	
		N.O.	N.C.	N.O.	N.C.	400 Hz	60 Hz	400 Hz	60 Hz	400 Hz	60 Hz	400 Hz	60 Hz
Resistive	50	120*	—	5	5	135	—	5	—	135	—	5	—
Inductive	50	—	—	3	3	135	—	3	—	135	—	3	—
Motor	50	—	—	—	—	80	—	—	—	80	—	—	—
Lamp	—	—	—	2	2	—	—	2	—	—	—	2	—
Transfer Load	10	—	—	—	—	135	—	—	—	135	—	—	—
Mech. Life Reduced Amps	100	—	—	1.25	1.25	33.75	—	1.25	—	33.75	—	1.25	—
Interm. Current	50	13.5	13.5	Per MIL-R-6106									

* Room Ambient conditions 100,000 operations.