

Features

- Switching capacity up to 20A; small size and light weight
- Low coil power consumption; high contact load
- Strong resistance to shock and vibration

cULus
E197852



Contact Data*

Contact Arrangement	1A, 1B, 1C = SPST N.O., SPST N.C., SPDT 2A, 2B, 2C = DPST N.O., DPST N.C., DPDT	Contact Resistance	< 50 milliohms initial
Contact Rating	1 Pole : 20A @ 277VAC & 28VDC, General Purpose 2 Pole : 12A @ 250VAC & 28VDC, General Purpose	Contact Material	AgCdO
	2 Pole : 10A @ 277VAC, General Purpose	Max Switching Power	5540VA, 560W
	1/2hp @ 125VAC	Max Switching Voltage	300VAC
		Max Switching Current	20A

Coil Data DC Parameters*

Coil Voltage VDC		Coil Resistance Ω +/- 10%	Pick Up Voltage VDC (max)	Release Voltage VDC (min)	Coil Power W	Operate Time ms	Release Time ms
Rated	Max		80% of rated voltage	10% of rated voltage			
12	15.6	160	9.6	1.2	.9	25	25
24	31.2	650	19.2	2.4			
36	46.8	1500	28.8	3.6			
48	62.4	2600	38.4	4.8			
110	143.0	11000	88.0	11.0			
220	286.0	53778	176.0	22.0			

Coil Data AC Parameters*

Coil Voltage VAC		Coil Resistance Ω +/- 10%	Pick Up Voltage VAC (max)	Release Voltage VAC (min)	Coil Power VA	Operate Time ms	Release Time ms
Rated	Max		80% of rated voltage	30% of rated voltage			
12	15.6	46	9.6	3.6	1.2	25	25
24	31.2	184	19.2	7.2			
36	46.8	370	28.8	10.8			
48	62.4	735	38.4	14.4			
110	143.0	3900	88.0	33.0			
120	132.0	4550	96.0	36.0			
220	286.0	14400	176.0	66.0			
240	312.0	19000	192.0	72.0			

General Data*

Electrical Life @ rated load	100K cycles, average
Mechanical Life	20M cycles (1 & 2 pole), typical; 10M cycles (3 & 4 pole), average
Insulation Resistance	100M Ω min. @ 500VDC initial
Dielectric Strength	Coil to Contact Contact to Contact
	1500V rms min. @ sea level initial 1500V rms min. @ sea level initial
Shock Resistance	100m/s ² for 11 ms
Vibration Resistance	1.27mm double amplitude 10~40Hz
Terminal (Copper Alloy) Strength	10N
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +155°C
Solderability	260°C for 5 s
Weight	2C: 40g; 3C: 50g; 4C: 60g

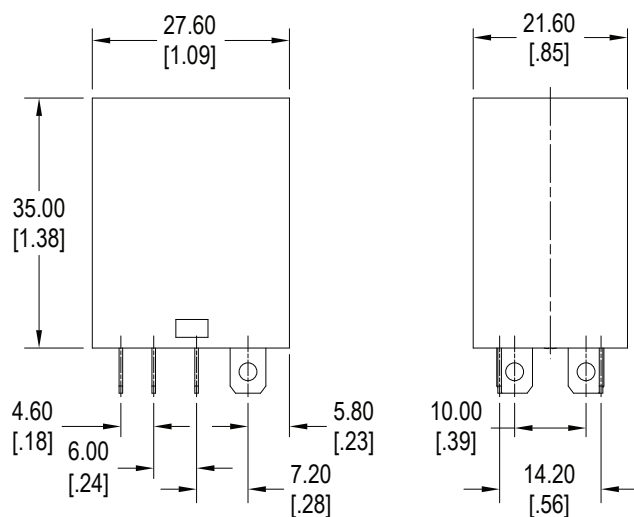
Ordering Information

1. Series	J151	2C	T	12VDC	.9			
J151								
2. Contact Arrangement								
1A, 1B, 1C								
2A, 2B, 2C								
3. Termination								
T = Solder lugs / Plug-in								
F = Solder lugs / Plug-in with Flange								
P = PCB Terminals								
4. Coil Voltage								
12VDC	12VAC	110VAC						
24VDC	24VAC	120VAC						
36VDC	36VAC	220VAC						
48VDC	48VAC	240VAC						
110VDC								
220VDC								
5. Coil Power								
.9 = .9W (For use with DC coil only)								
1.2 = 1.2VA (For use with AC coil only)								
6. Option LED								
Blank = No indicator LED								
D = With indicator LED								
7. Gold Option								
Blank = Standard contact								
G = Gold over standard contacts								
8. Push to Test Option								
Blank = Without push to test button								
T = With push to test button								

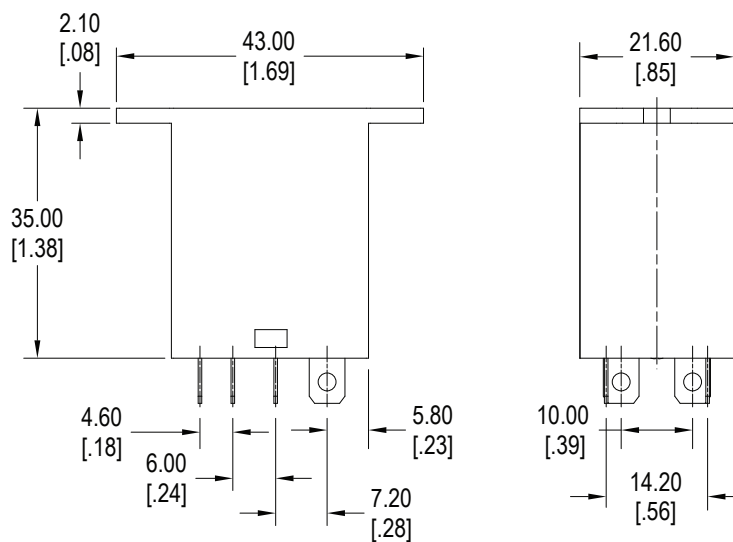
* Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

Dimensions

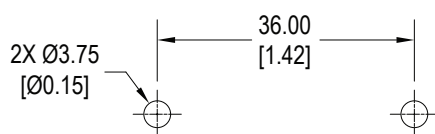
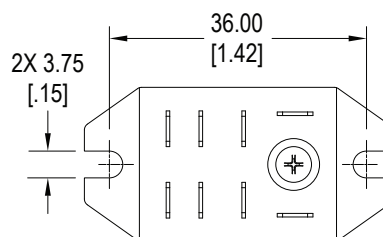
Units = mm



1 & 2 Pole

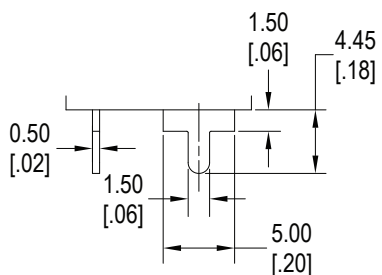


1 & 2 Pole with Flange

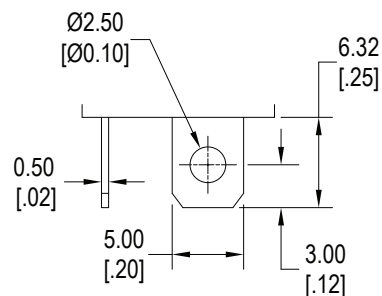


Flange Mount Layouts

Termination Options

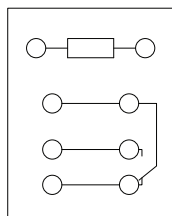


PC Pin

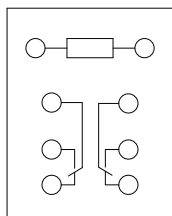


Solder Lug

Schematics & PC Layouts



1C



2C

