



Features

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

Contact Data*

Contact Arrangement	1A, 1B, 1C = SPST N.O., SPST N.C., SPDT	Contact Resistance	< 50 milliohms initial
	2A, 2B, 2C = DPST N.O., DPST N.C., DPDT	Contact Material	AgCdO
Contact Rating	3A, 3B, 3C = 3PST N.O., 3PST N.C., 3PDT	Maximum Switching Power	5540VA, 560W
	4A, 4B, 4C = 4PST N.O., 4PST N.C., 4PDT	Maximum Switching Voltage	300VAC
	1 Pole : 20A @ 277VAC & 28VDC, General Purpose	Maximum Switching Current	20A
	2 Pole : 12A @ 250VAC & 28VDC, General Purpose		
	2 Pole : 10A @ 277VAC, General Purpose; 1/2hp @ 125VAC		
	3 & 4 Pole : 12A @ 250VAC & 28VDC, General Purpose		
	3 & 4 Pole : 10A @ 277VAC, General Purpose; 1/2hp @ 125VAC		

Coil Data DC Parameters*

Coil Voltage VDC		Coil Resistance Ω +/- 10%			Pick Up Voltage VDC (max) 75% of rated voltage	Release Voltage VDC (min) 10% of rated voltage	Coil Power W	Operate Time ms	Release Time ms
Rated	Max	.9W	1.4W	1.5W					
12	15.6	160	100	96	9.00	1.2	.90 1.40	25	25
24	31.2	650	400	360	18.00	2.4			
36	46.8	1500	900	865	27.00	3.6			
48	62.4	2600	1600	1540	36.00	4.8			
110	143.0	11000	8400	6800	82.50	11.0			
220	286.0	53778	34571	32267	165.00	22.0			

Coil Data AC Parameters*

Coil Voltage VAC		Coil Resistance Ω +/- 10%			Pick Up Voltage VAC (max) 80% of rated voltage	Release Voltage VAC (min) 30% of rated voltage	Coil Power W	Operate Time ms	Release Time ms
Rated	Max	1.2VA	2.0VA	2.5VA					
12	15.6	46	25.5	20	9.60	3.6	1.20 2.00 2.50	25	25
24	31.2	184	102	80	19.20	7.2			
36	46.8	370	230	180	28.8	10.8			
48	62.4	735	410	320	38.4	14.4			
110	143.0	3900	2300	1680	88.00	33.0			
120	156.0	4550	2530	1990	96.00	36.0			
220	286.0	14400	8600	3700	176.00	66.0			
240	312.0	19000	10555	8280	192.00	72.0			

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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	1500V rms min. @ sea level initial
Contact to Contact	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

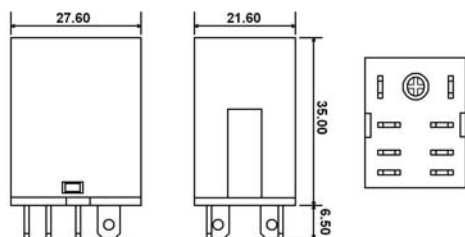
* Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application.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

Ordering Information

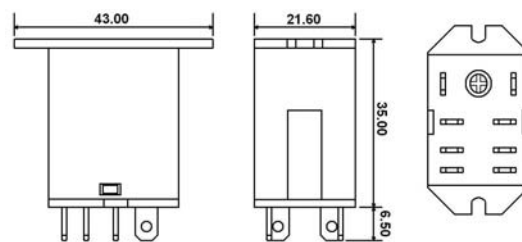
1. Series	J151	2C	T	12VDC	.9			
J151								
2. Contact Arrangement								
1A, 1B, 1C								
2A, 2B, 2C								
3A, 3B, 3C contact factory for availability								
4A, 4B, 4C contact factory for availability								
3. Termination								
T = Solder lugs / Plug-in								
F = Solder lugs / Plug-in 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 (DC coil for use with 1 and 2 pole models only)								
1.4 = 1.4W (DC coil for use with 3 pole models only)								
1.5 = 1.5W (DC coil for use with 4 pole models only)								
1.2 = 1.2VA (AC coil for use with 1 and 2 pole models only)								
2.0 = 2.0VA (AC coil for use iwth 3 pole models only)								
2.5 = 2.5VA (AC coil for use with 4 pole models 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								

Dimensions

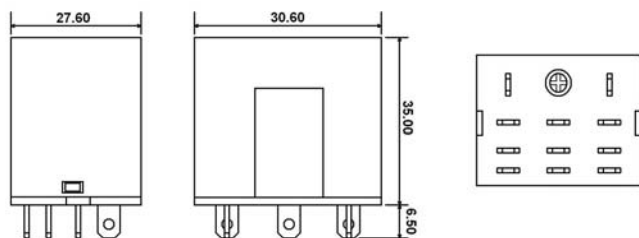
Units = mm



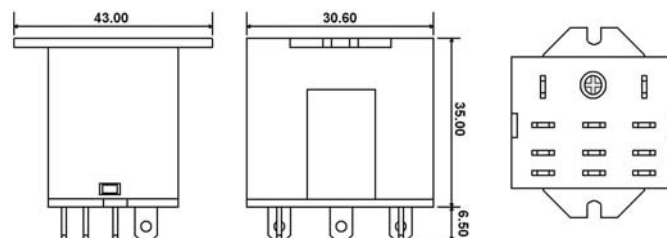
1 & 2 Pole



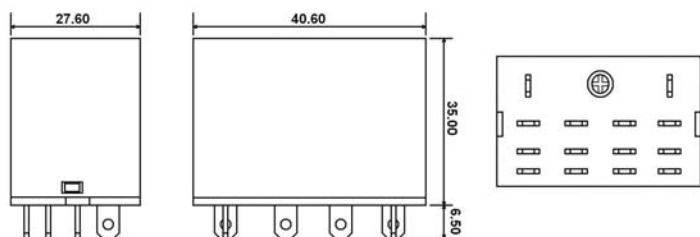
1 & 2 Pole with Flange



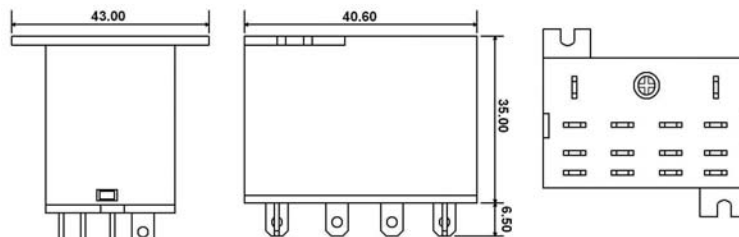
3 Pole



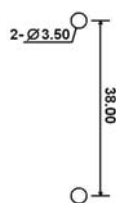
3 Pole with Flange



4 Pole



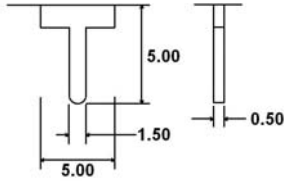
4 Pole with Flange



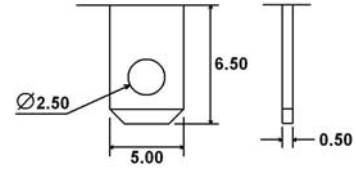
Flange Mount Layouts

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Termination Options

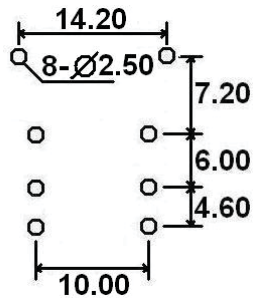
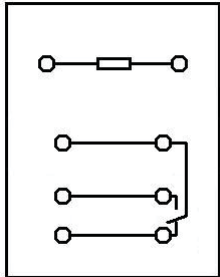


PC Pins

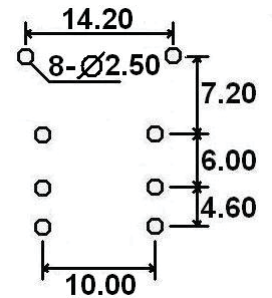
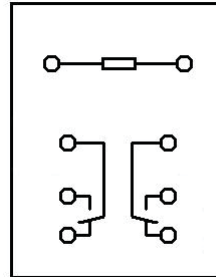


Solder Tabs

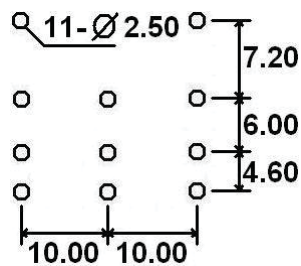
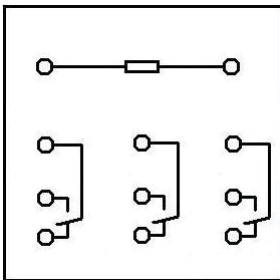
Schematics & PC Layouts



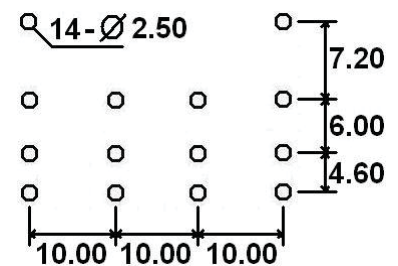
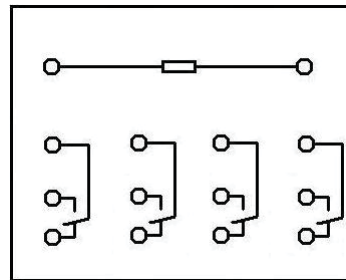
1C



2C



3C



4C