



## 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 2A, 2B, 2C = DPST N.O., DPST N.C., DPDT 3A, 3B, 3C = 3PST N.O., 3PST N.C., 3PDT 4A, 4B, 4C = 4PST N.O., 4PST N.C., 4PDT
Contact Rating	1 Pole : 20A @ 277VAC & 28VDC 2 Pole : 12A @ 250VAC & 28VDC 2 Pole : 10A @ 277VAC; 1/2hp @ 125VAC 3 Pole : 12A @ 250VAC & 28VDC 3 Pole : 10A @ 277VAC; 1/2hp @ 125VAC 4 Pole : 12A @ 250VAC & 28VDC 4 Pole : 10A @ 277VAC; 1/2hp @ 125VAC

Contact Resistance	< 50 milliohms initial
Contact Material	AgSnO <sub>2</sub>
Maximum Switching Power	5540VA, 560W
Maximum Switching Voltage	300VAC
Maximum Switching Current	20A

## 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					
6	7.8	40	N/A	N/A	4.50	.6	.90 1.40 1.50	25	25
12	15.6	160	100	96	9.00	1.2			
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					
6	7.8	11.5	N/A	N/A	4.80	1.8	1.20 2.00 2.50	25	25
12	15.6	46	25.5	20	9.60	3.6			
24	31.2	184	102	80	19.20	7.2			
36	46.8	370	230	180	28.80	10.8			
48	62.4	735	410	320	38.40	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			

Dimensions shown in mm. Dimensions are shown for reference purposes only.

Specifications and availability subject to change without notice.

## General Data

Electrical Life @ rated load	100K cycles, typical
Mechanical Life	20M cycles (1 & 2 pole), typical; 10M cycles (3 & 4 pole), typical
Insulation Resistance	100M Ω min. @ 500VDC
Dielectric Strength, Coil to Contact	1500V rms min. @ sea level
Contact to Contact	1500V rms min. @ sea level
Shock Resistance	100m/s <sup>2</sup> 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							
3A, 3B, 3C							
4A, 4B, 4C							
3. Termination							
T = Solder lugs / Plug-in							
F = Solder lugs / Plug-in with Flange							
P = PCB Terminals							
4. Coil Voltage							
6VDC / 6VAC							
12VDC / 12VAC							
24VDC / 24VAC							
36VDC / 36VAC							
48VDC / 48VAC							
110VDC / 110VAC							
120VAC							
220VAC							
240VAC							
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							

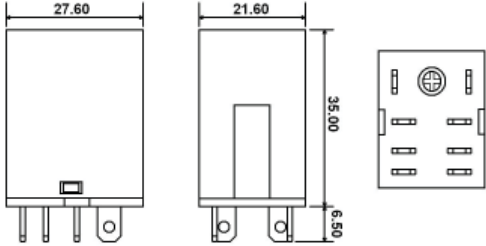
Specifications and availability subject to change without notice.

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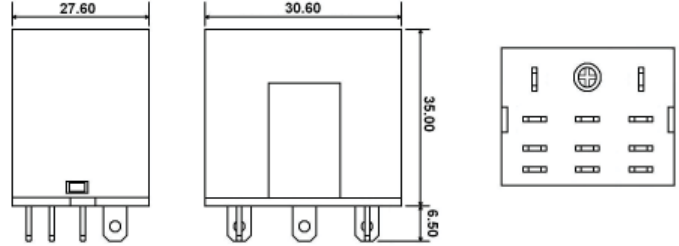
# J151

## Dimensions

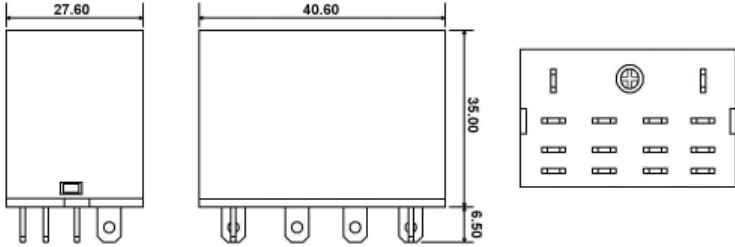
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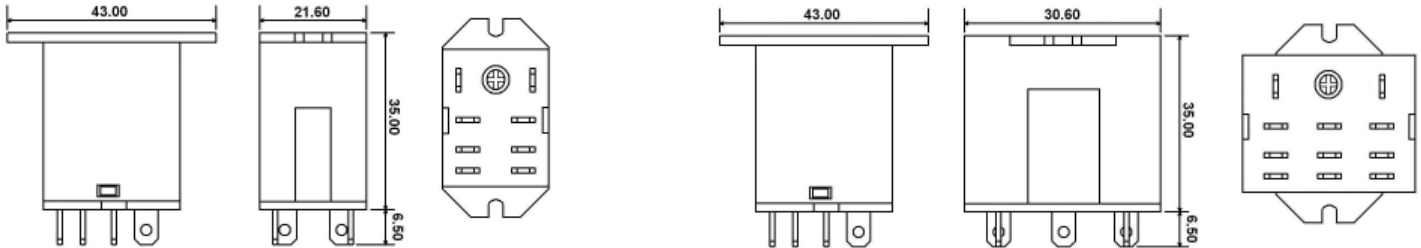
**1 & 2 Pole**



**3 Pole**

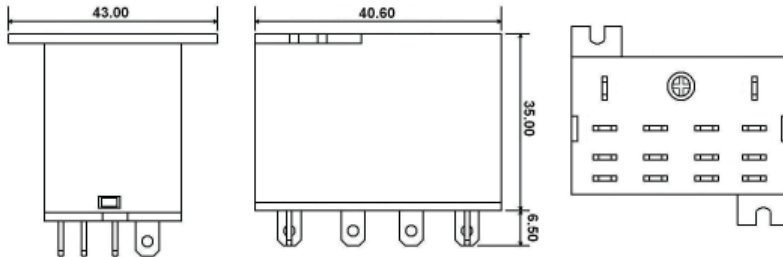


**4 Pole**

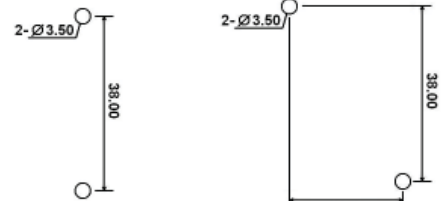


**1 & 2 Pole with Flange**

**3 Pole with Flange**

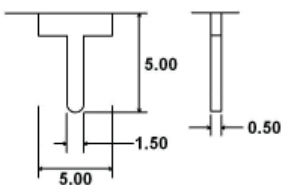


**4 Pole with Flange**

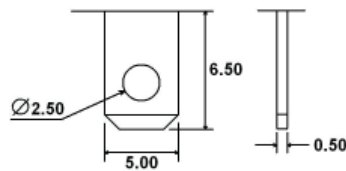


**Flange Mount Layouts**

## Termination Options



**PC Pins**



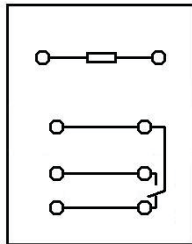
**Solder Tabs**

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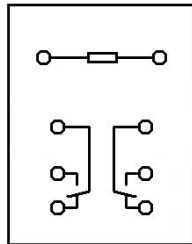
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## Schematics & PC Layouts

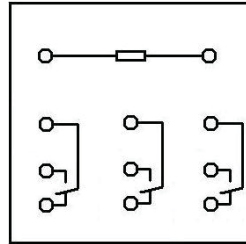
### Bottom Views



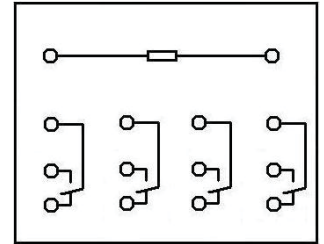
1C



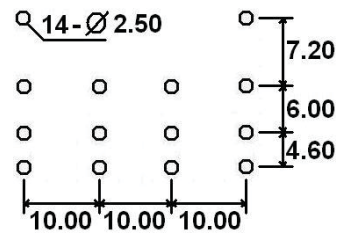
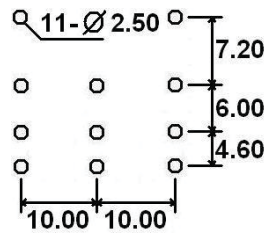
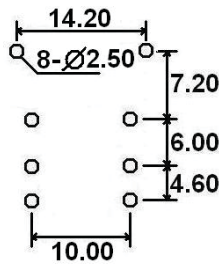
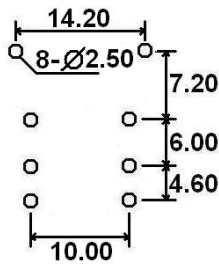
2C



3C



4C



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