





E197852

21.6, 30.6, 40.6 x 27.6 x 35.0 mm

#### **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	1A, 1B, 1C = SPST N.O., SPST N.C., SPDT
Arrangement	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, General Purpose
	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

Contact Resistance	< 50 milliohms initial
Contact Material	AgCdO
Maximum Switching Power	5540VA, 560W
Maximum Switching Voltage	300VAC
Maximum Switching Current	20A

### Coil Data DC Parameters\*

I	oltage OC	_	il Resistar Ω +/- 10%		Pick Up Voltage VDC (max) 75% of rated	Release Voltage VDC (min) 10% of rated	Coil Power W	Operate Time ms	Release Time ms
Rated	Max	.9W	1.4W	1.5W	voltage	voltage			
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	.90	25	25
48	62.4	2600	1600	1540	36.00	4.8	1.40	25	25
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 V	oltage AC	_	oil Resistan Ω +/- 10%		Pick Up Voltage VAC (max) 80% of rated	Release Voltage VAC (min) 30% of rated	Coil Power W	Operate Time ms	Release Time ms
Rated	Max	1.2VA	2.0VA	2.5VA	voltage	voltage			
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	28.8	10.8			
48	62.4	735	410	320	38.4	14.4	1.20 2.00	25	25
110	143.0	3900	2300	1680	88.00	33.0	2.50	25	25
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			



### 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 <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

<sup>\*</sup> 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.

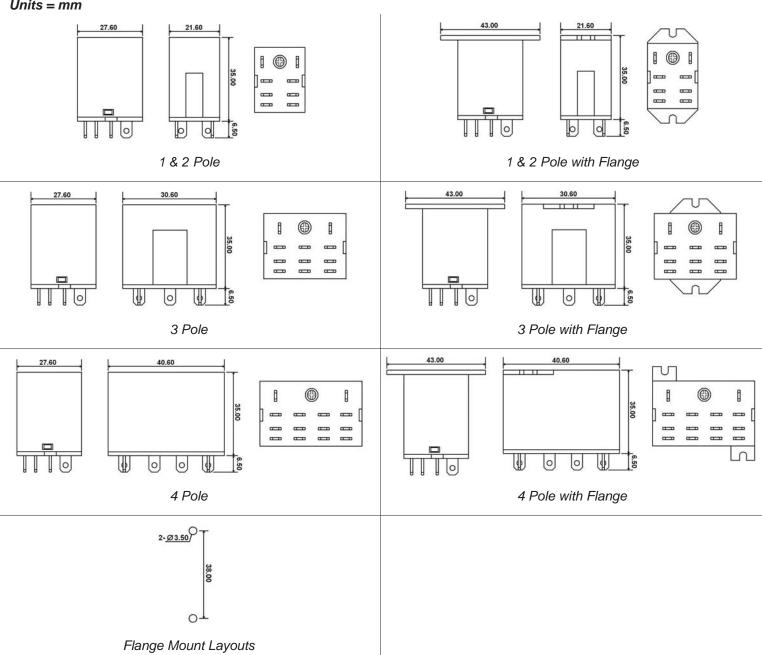
## **Ordering Information**

1. Series	J151	2C	Т	12VDC	.9	
J151						
	ngement ontact factory for avail ontact factory for avail					
3. Termination T = Solder lug F = Solder lug P = PCB Term	gs / Plug-in with	Flange				
4. Coil Voltage 12VDC 24VDC 36VDC 48VDC 110VDC 220VDC	12VAC 24VAC 36VAC 48VAC	110VAC 120VAC 220VAC 240VAC				
1.4 = 1.4W (D 1.5 = 1.5W (D 1.2 = 1.2VA (A 2.0 = 2.0VA (A	coil for use with 1 a DC coil for use with DC coil for use with AC coil for use with AC coil for use iwth AC coil for use with	3 pole models on 4 pole models on 1 and 2 pole models on 3 pole models on	ly) ly) dels only) lly)			
6. Option LED Blank = No in D = With indic						
7. Gold Option Blank = Stand G = Gold ove	dard contact er standard conta	cts				
	Option out push to test b n to test button	utton				



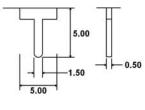
### **Dimensions**

Units = mm





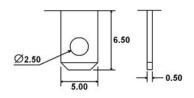
# **Termination Options**



PC Pins

1C

3C



Solder Tabs

2C

# Schematics & PC Layouts

