CIT RELAY & SWITCH
A Division of Circuit Interruption Technology, Inc.

WJ151

FEATURES:

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

c UL us **E197851**

L x 27.6 x 26.0 mm

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; 10A @ 277VAC; ½ hp @ 125VAC 3 Pole: 12A @ 250VAC & 28VDC; 10A @ 277VAC; ½ hp @ 125VAC 4 Pole: 12A @ 250VAC & 28VDC; 10A @ 277VAC; ½ hp @ 125VAC
Contact Resistance	< 50 milliohms initial
Contact Material	AgCdO
Maximum Switching Power	5540VA, 560W
Maximum Switching Voltage	300VAC
Maximum Switching Current	20A

DC COIL DATA

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	6.6	40	N/A	N/A	4.5	.6	.9 1.4 1.5	25	25
12	13.2	160	100	96	9.0	1.2			
24	26.4	650	400	360	18	2.4			
36	39.6	1500	900	865	27	3.6			
48	52.8	2600	1600	1540	36	4.8			
110	121.0	11000	8400	6800	82.5	11.0			
220	242.0	53778	34571	32267	165.0	22.0			

AC COIL DATA

Coil Voltage VAC		Coil Resistance Ω ± 10%			Pick Up Voltage VDC (max) 80% of rated voltage	Release Voltage VDC (min) 30% of rated voltage	Coil Power W	Operate Time ms	Release Time ms
Rated	Max.	1.2VA	2.0VA	2.5VA					
6	6.6	11.5	N/A	N/A	4.8	1.8	1.2 2.0 2.5	25	25
12	13.2	46	25.5	20	9.6	3.6			
24	26.4	184	102	80	19.2	7.2			
36	39.6	370	230	180	28.8	10.8			
48	52.8	735	410	320	38.4	14.4			
110	121.0	3900	2300	1680	88.0	33.0			
120	132.0	4550	2530	1990	96.0	36.0			
220	242.0	14400	8600	3700	176.0	66.0			
240	312.0	19000	10555	8280	192.0	72.0			

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GENERAL DATA

Electrical Life @ rated load Mechanical Life	100K cycles, typical 20M cycles (1 & 2 Pole), typical 10M cycles (3 & 4 Pole), typical
Insulation Resistance	100MΩ min @ 500VDC
Dielectric Strength, Coil to Contact Contact to Contact	1500V rms min. @ sea level 1500V rms min. @ sea level
Shock Resistance	100m/s^2 for 11ms
Vibration Resistance	1.27mm double amplitude 10-40Hz
Terminal (Copper Alloy) Strength	10N
Operating Temperature Storage Temperature	-40 °C to + 85 °C -40 °C to + 155 °C
Solderability	230 °C ± 2 °C for 10 ± 0.5s
Weight	2C: 40g; 3C: 50g; 4C: 60g

ORDERING INFORMATION

1. Series:	**WJ151**	**2C**	**T**	**12VDC**	**1.4**
WJ151					
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 = 0.9W (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 with 3 pole models only)					
2.5 = 2.5VA (AC coil for use with 4 pole models only)					
6. Optional LED:					
Blank = No Indicator LED					
D = With indicator LED					
7. Sealed Option:					
Blank = Dust Cover (standard)					
S = Sealed					
8. Gold Option:					
Blank = Standard contacts					
R = Gold flash over standard contacts					
9. Push to Test Option:					
Blank = Without push to test button					
T = With push to test button					

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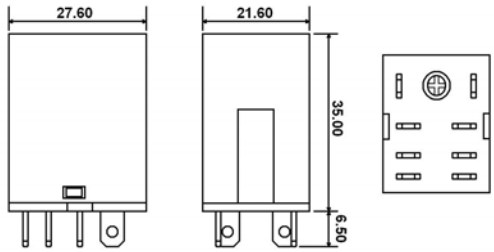
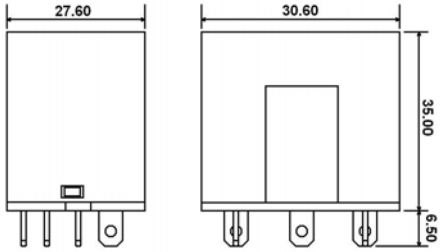
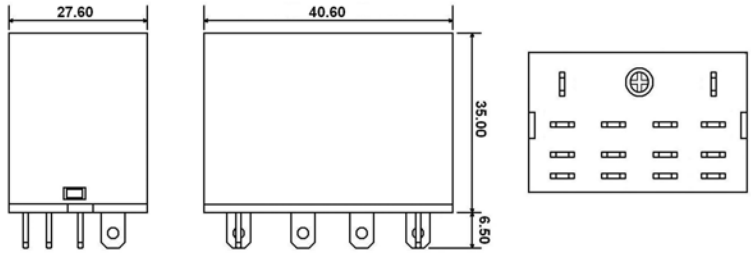
DIMENSIONS (Units = mm)



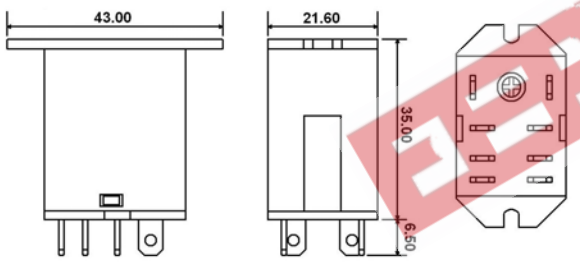
1 & 2 POLE



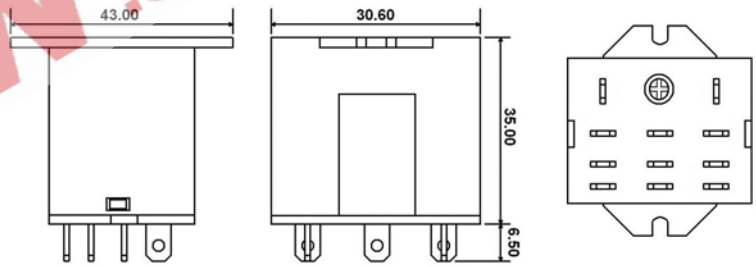
3 POLE



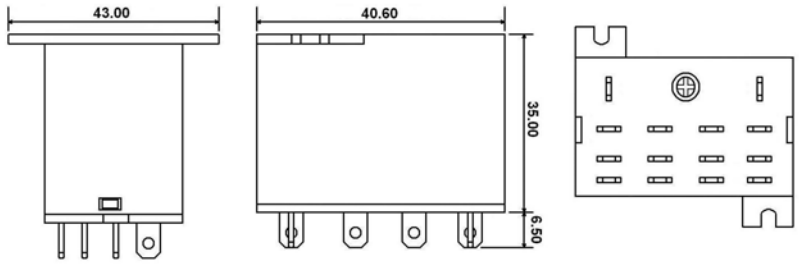
4 POLE



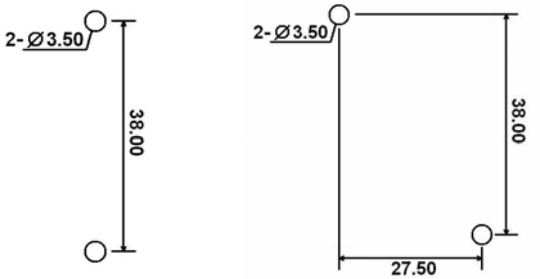
1 & 2 POLE WITH FLANGE



3 POLE WITH FLANGE

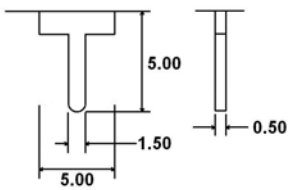


4 POLE WITH FLANGE

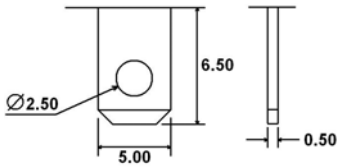


FLANGE MOUNT LAYOUTS

TERMINATION OPTIONS



PC PINS



SOLDER TABS

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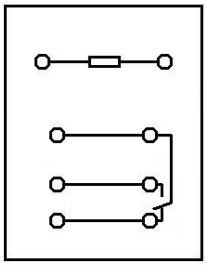
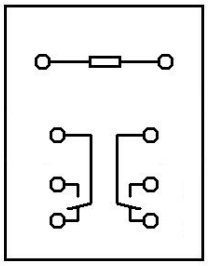
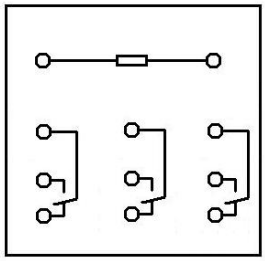
SCHEMATICS & PC LAYOUTS (BOTTOM VIEWS)



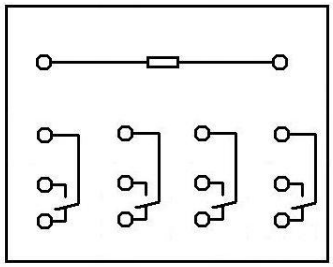
1C



2C



3C



4C