

Distributor: [Electro-Stock www.electrostock.com](http://www.electrostock.com) Tel: 630-682-1542 Fax: 630-682-1562

FEATURES:

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



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 $\Omega \pm 10\%$ | | | Pick Up Voltage VDC (max) | Release Voltage VDC (min) | Coil Power W | Operate Time ms | Release Time ms |
|------------------|-------|-----------------------------------|-------|-------|---------------------------|---------------------------|------------------|-----------------|-----------------|
| Rated | Max. | .9W | 1.4W | 1.5W | 75% of rated voltage | 10% of rated voltage | | | |
| 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 $\Omega \pm 10\%$ | | | Pick Up Voltage VDC (max) | Release Voltage VDC (min) | Coil Power W | Operate Time ms | Release Time ms |
|------------------|-------|-----------------------------------|-------|-------|---------------------------|---------------------------|-------------------|-----------------|-----------------|
| Rated | Max. | 1.2VA | 2.0VA | 2.5VA | 80% of rated voltage | 30% of rated voltage | | | |
| 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 | | | |

GENERAL DATA

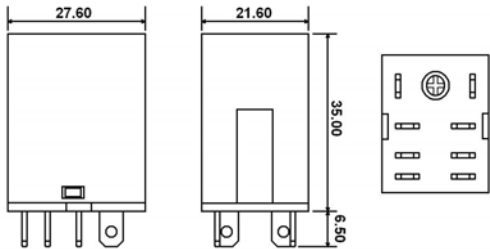
| | |
|--------------------------------------|--|
| Electrical Life @ rated load | 100K cycles, typical |
| Mechanical Life | 20M cycles (1 & 2 Pole), typical 10M cycles (3 & 4 Pole), typical |
| Insulation Resistance | 100MΩ min @ 500VDC |
| Dielectric Strength, Coil to Contact | 1500V rms min. @ sea level |
| Contact to Contact | 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 | -40 °C to + 85 °C |
| Storage Temperature | -40 °C to + 155 °C |
| Solderability | 230 °C ± 2 °C for 10 ± 0.5s |
| Weight | 2C: 40g; 3C: 50g; 4C: 60g |

ORDERING INFORMATION

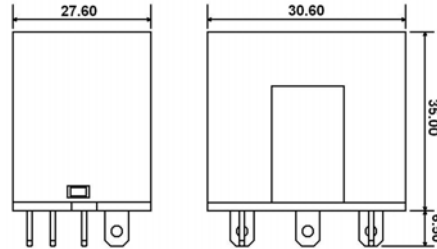
| | | | | | |
|---|--------------|-----------|----------|--------------|------------|
| 1. Series: WJ151 | WJ151 | 2C | T | 12VDC | 1.4 |
| 2. Contact Arrangement: 1A, 1B, 1C 2A, 2B, 2C 3A, 3B, 3C 4A, 4B, 4C | | | | | |
| 3. Termination: T = Solder lugs / Plug-in F = Solder lugs / Plug-in with Flange 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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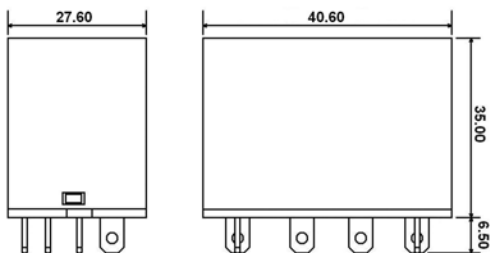
DIMENSIONS (Units = mm)



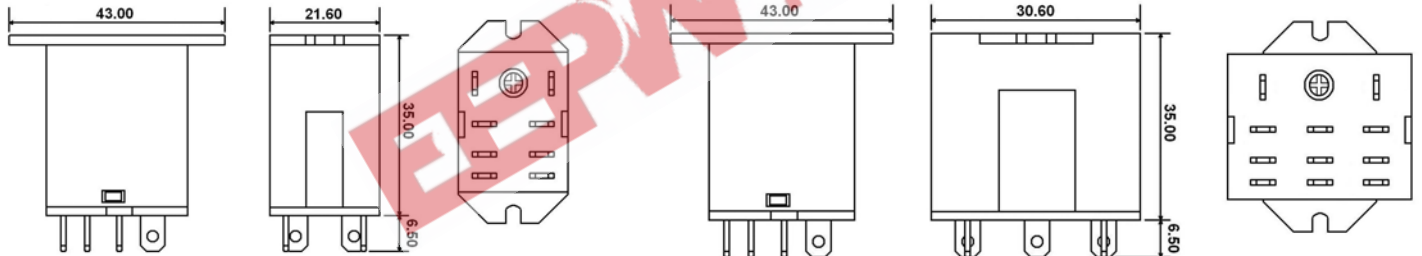
1 & 2 POLE



3 POLE

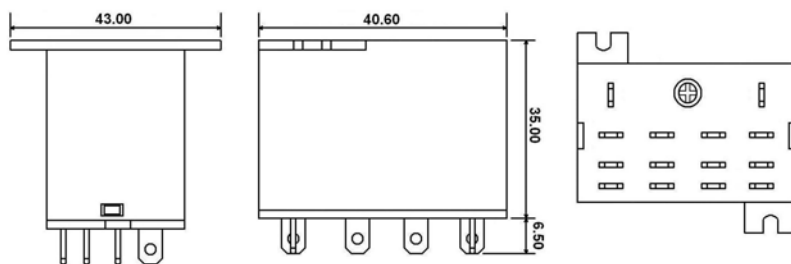


4 POLE

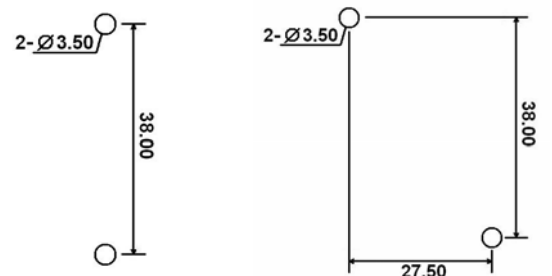


1 & 2 POLE WITH FLANGE

3 POLE WITH FLANGE

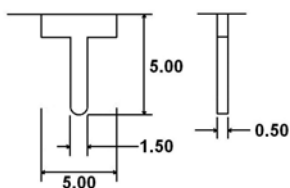


4 POLE WITH FLANGE

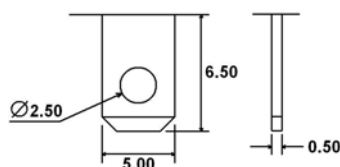


FLANGE MOUNT LAYOUTS

TERMINATION OPTIONS



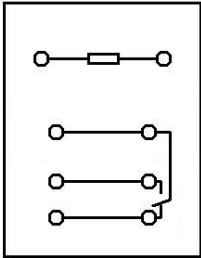
PC PINS



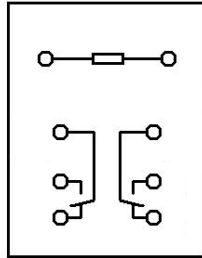
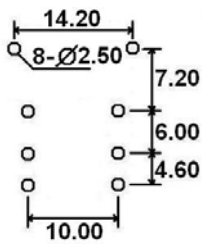
SOLDER TABS

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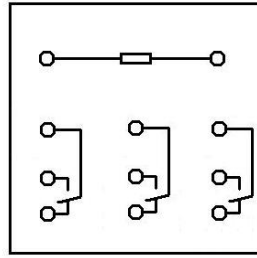
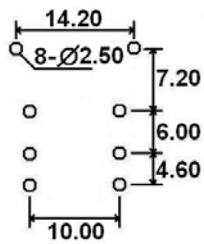
SCHEMATICS & PC LAYOUTS (BOTTOM VIEWS)



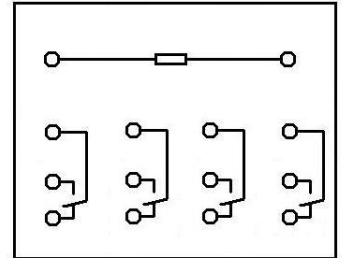
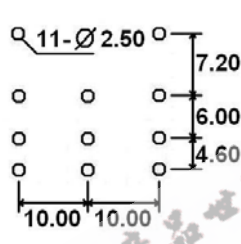
1C



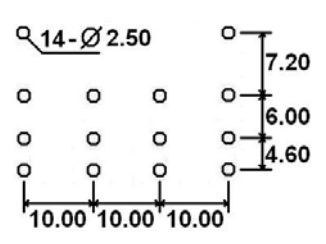
2C



3C



4C



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