



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 ₂ |
| 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 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 |

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 | | | | | | | |

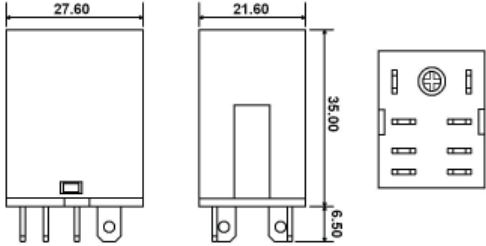
Specifications and availability subject to change without notice.

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

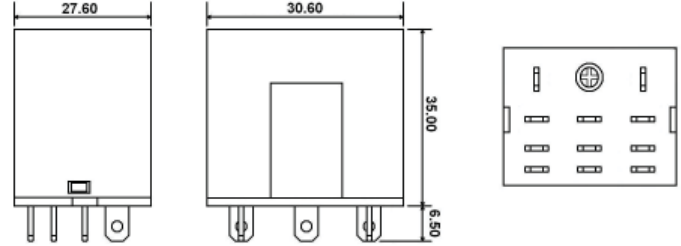
J151

Dimensions

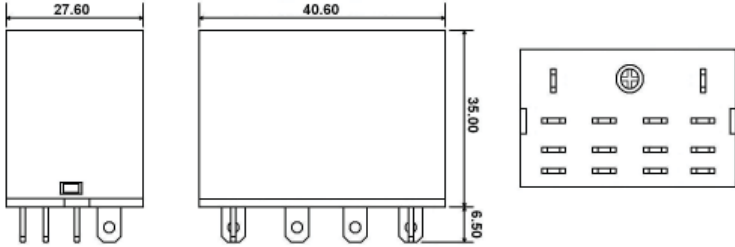
Units = mm



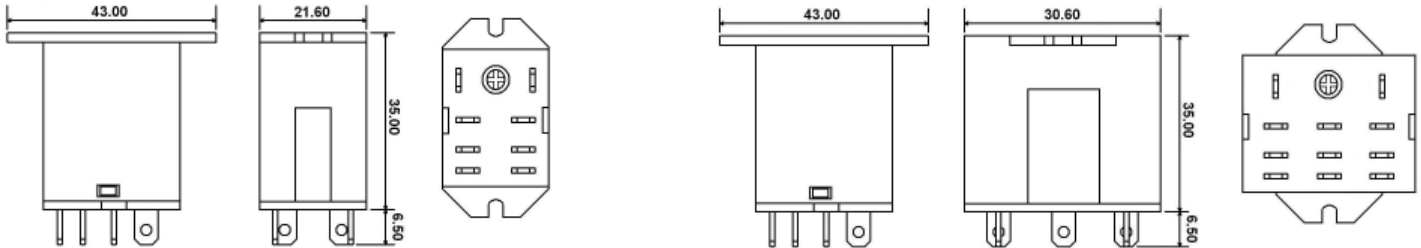
1 & 2 Pole



3 Pole

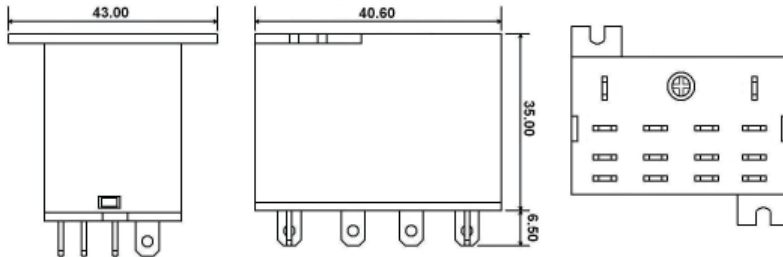


4 Pole

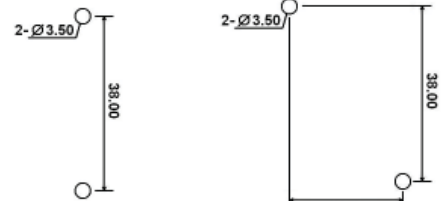


1 & 2 Pole with Flange

3 Pole with Flange

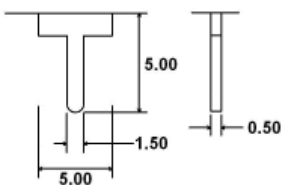


4 Pole with Flange

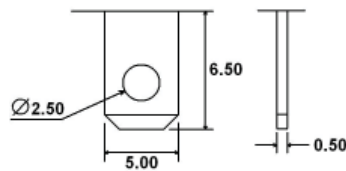


Flange Mount Layouts

Termination Options



PC Pins



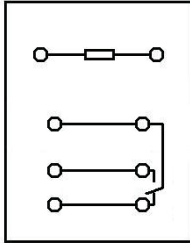
Solder Tabs

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

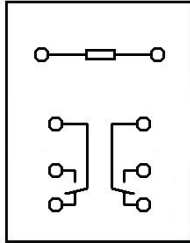
Specifications and availability subject to change without notice.

Schematics & PC Layouts

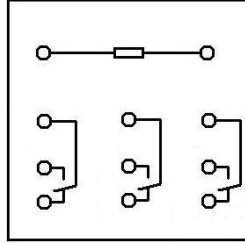
Bottom Views



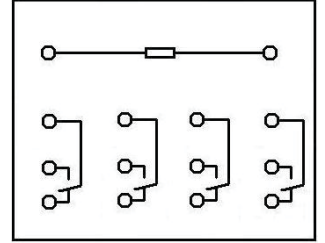
1C



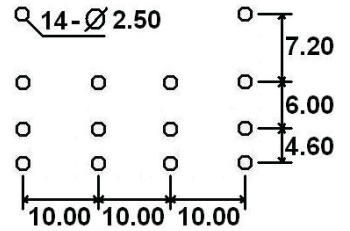
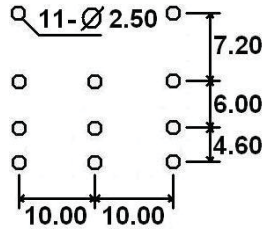
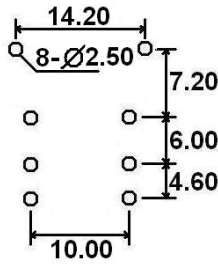
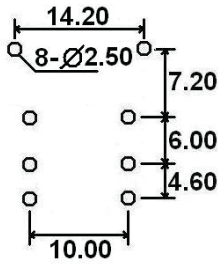
2C



3C



4C



Specifications and availability subject to change without notice.

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