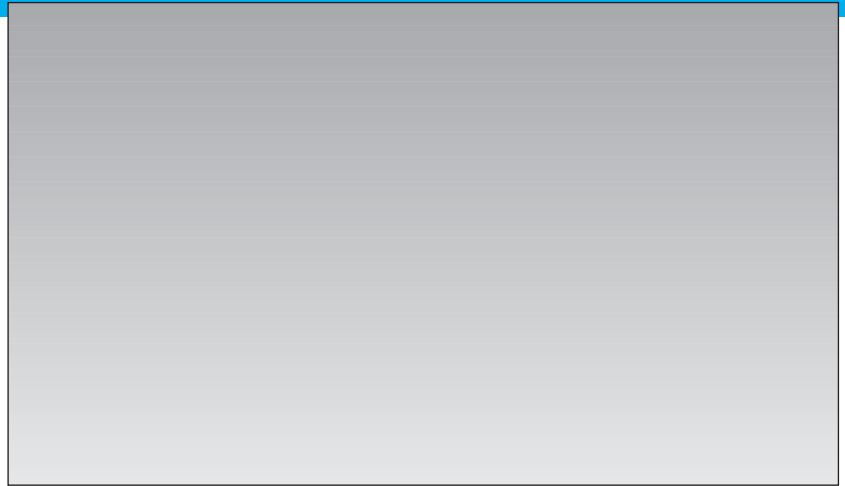


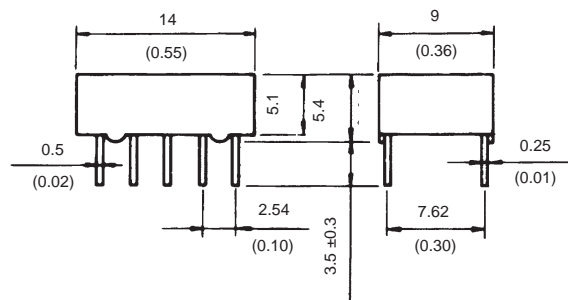
- DIL package
- High sensitivity coil
- Ultra low profile, minimal board area
- Fully sealed for immersion cleaning
- Low magnetic interference
- FCC Part 68 compliant
- Latching versions available
- UL recognised (E73266), CSA Certified (LR46266)



Specifications

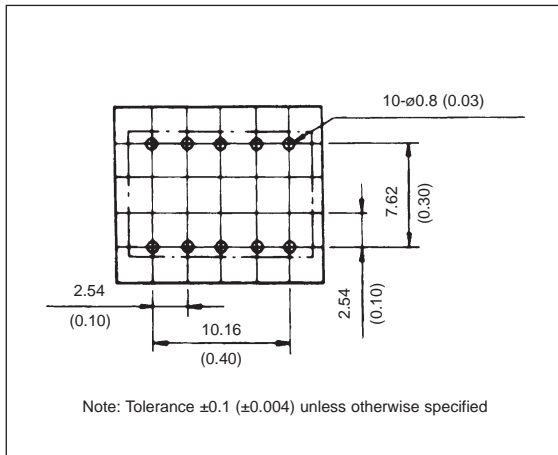
| | | | |
|--|--|---|---------------------|
| Contact form | | 2 Form C | |
| Contact rating | Maximum switching power | 30W (resistive) | 62.5 VA (resistive) |
| | Maximum switching voltage | 220 VDC | 250 VAC |
| | Maximum switching current | 1A | |
| | Maximum carrying current | 2A (@ 20°C) | |
| Initial contact resistance | | 50 mΩ TYP. | |
| Contact material | | Silver alloy with gold overlay | |
| Nominal operating power | Non-latch type and double coil latch type | 140 mW (3 to 12 V) | 200 mW (24 V) |
| | Single coil latch type | 100 mW (3 to 12V) | 150 mW (24 V) |
| Minimum operating power | Non-latch type and double coil latch type | 79 mW (3 to 12 V) | 113 mW (24 V) |
| | Single coil latch type | 56 mW (3 to 12 V) | 85 mW (24 V) |
| | | | |
| Operate time (excluding bounce) | | Approximately 2 ms without diode | |
| Release time (excluding bounce) | | Approximately 1 ms without diode | |
| Insulation resistance | | 1000 MΩ at 500 VDC | |
| Breakdown voltage | Between open contacts | 1000 VAC (for 1 minute) | |
| | Between adjacent contacts | 1000 VAC (for 1 minute) | |
| | Between coil and contact | 1000 VAC (for 1 minute) | |
| Shock resistance | | 75 G (misoperating) | |
| Vibration resistance | | 20 G (misoperating) | |
| Ambient temperature | | -40 to +85°C | |
| Coil temperature rise | | 18° at nominal coil voltage (140 mW) | |
| Life expectancy | Mechanical | 100 x 10 ⁶ operations | |
| | Electrical | 30 VDC 1 A (resistive), 200 x 10 ³ operations | |
| Weight | | 125 VAC 0.5 A (resistive), 100 x 10 ³ operations | |
| | | Approximately 1.5 grams | |

Dimensions mm

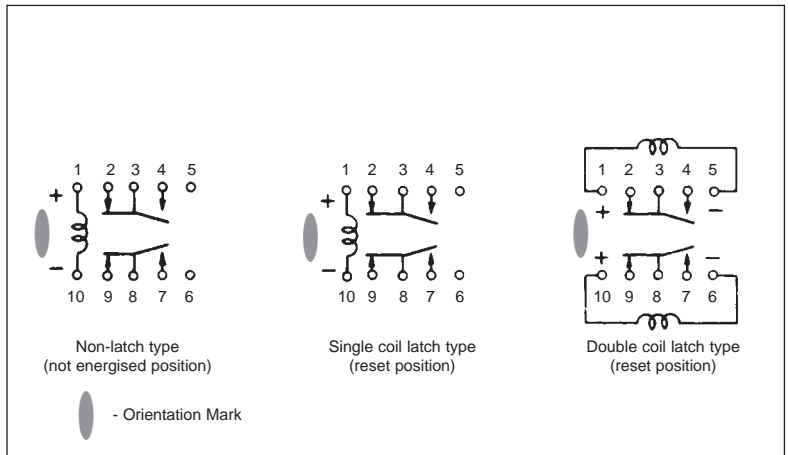


Note: Tolerance ± 0.2 (± 0.008) unless otherwise specified

PCB layout (bottom view)



Pin configuration (bottom view)



Part Numbers

Standard Type

at 25°C

| Part Number | | Nominal Coil Voltage (VDC) Range 75% - 150% | Coil Resistance (Ω) $\pm 10\%$ | Must Operate Voltage (VDC) | Must Release Voltage (VDC) |
|---------------|------------------------|--|---|----------------------------|----------------------------|
| Standard Type | UL/CSA Recognised Type | | | | |
| EA2-3 | EA2-3NU | 3 | 64.3 | 2.25 | 0.3 |
| EA2-4.5 | EA2-4.5NU | 4.5 | 145 | 3.38 | 0.45 |
| EA2-5 | EA2-5NU | 5 | 178 | 3.75 | 0.5 |
| EA2-6 | EA2-6NU | 6 | 257 | 4.5 | 0.6 |
| EA2-9 | EA2-9NU | 9 | 579 | 6.75 | 0.9 |
| EA2-12 | EA2-12NU | 12 | 1028 | 9 | 1.2 |
| EA2-24 | EA2-24NU | 24 | 2880 | 18 | 2.4 |

Latching Type (Single Wound Coil)

at 25°C

| Part Number | | Nominal Coil Voltage (VDC) Range 75% - 150% | Coil Resistance (Ω) $\pm 10\%$ | Must Operate Voltage (VDC) | Must Release Voltage (VDC) |
|---------------|------------------------|--|---|----------------------------|----------------------------|
| Standard Type | UL/CSA Recognised Type | | | | |
| EA2-3S | EA2-3SNU | 3 | 90 | 2.25 | 2.25 |
| EA2-4.5S | EA2-4.5SNU | 4.5 | 202 | 3.38 | 3.38 |
| EA2-5S | EA2-5SNU | 5 | 250 | 3.75 | 3.75 |
| EA2-6S | EA2-6SNU | 6 | 360 | 4.5 | 4.5 |
| EA2-9S | EA2-9SNU | 9 | 810 | 6.75 | 6.75 |
| EA2-12S | EA2-12SNU | 12 | 1440 | 9 | 9 |
| EA2-24S | EA2-24SNU | 24 | 3840 | 18 | 18 |

Latching Type (Double Wound Coil)

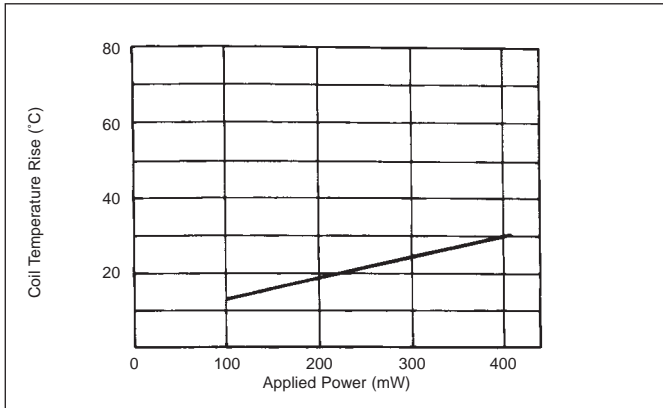
at 25°C

| Part Number | | Nominal Coil Voltage (VDC) Range 75% - 150% | Coil Resistance (Ω) $\pm 10\%$ | | Must Operate Voltage (VDC) | Must Release Voltage (VDC) |
|---------------|------------------------|--|---|------|----------------------------|----------------------------|
| Standard Type | UL/CSA Recognised Type | | | | | |
| EA2-3T | EA2-3TNU | 3 | P | 64.3 | 2.25 | - |
| | | | S | 64.3 | - | 2.25 |
| EA2-4.5T | EA2-4.5TNU | 4.5 | P | 145 | 3.38 | - |
| | | | S | 145 | - | 3.38 |
| EA2-5T | EA2-5TNU | 5 | P | 178 | 3.75 | - |
| | | | S | 178 | - | 3.75 |
| EA2-6T | EA2-6TNU | 6 | P | 257 | 4.5 | - |
| | | | S | 257 | - | 4.5 |
| EA2-9T | EA2-9TNU | 9 | P | 579 | 6.75 | - |
| | | | S | 579 | - | 6.75 |
| EA2-12T | EA2-12TNU | 12 | P | 1028 | 9 | - |
| | | | S | 1028 | - | 9 |
| EA2-24T | EA2-24TNU | 24 | P | 2880 | 18 | - |
| | | | S | 2880 | - | 18 |

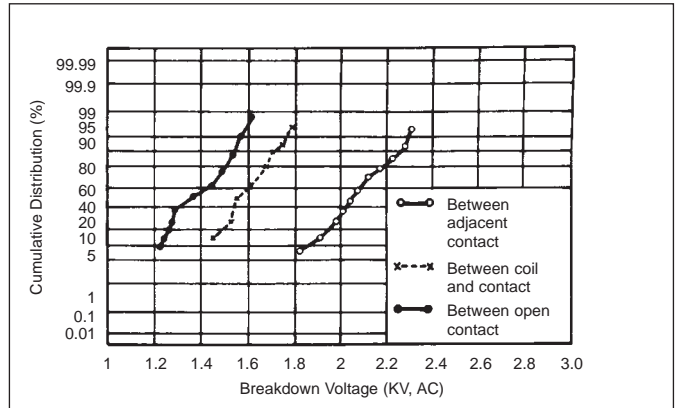
P - Primary (set) coil S - Secondary (reset) coil

Data

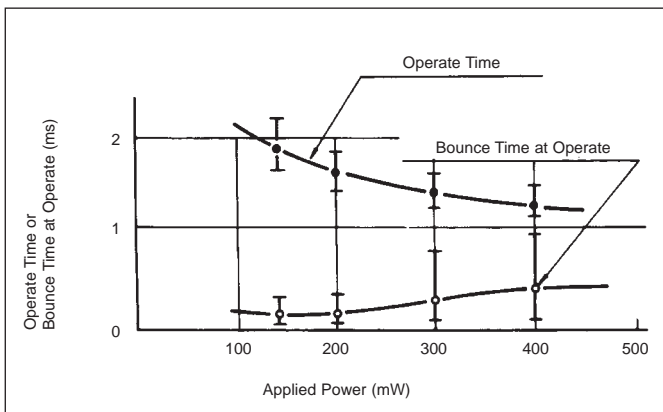
Coil temperature rise



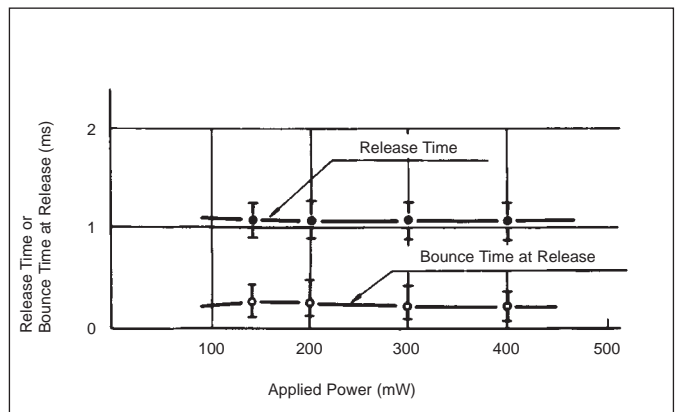
Breakdown voltage



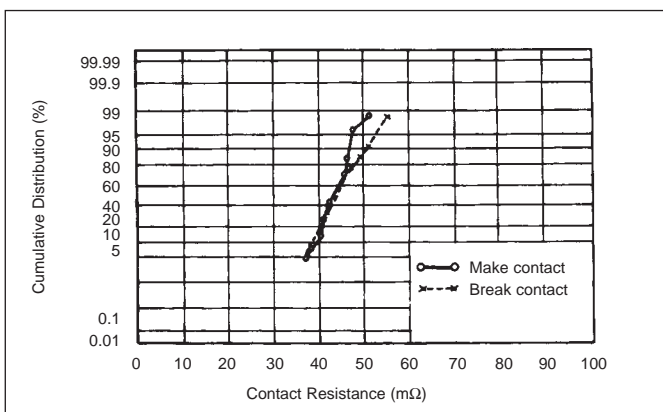
Operate time



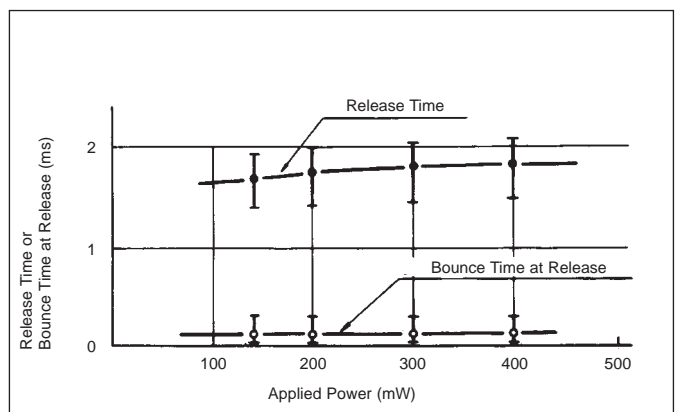
Release time



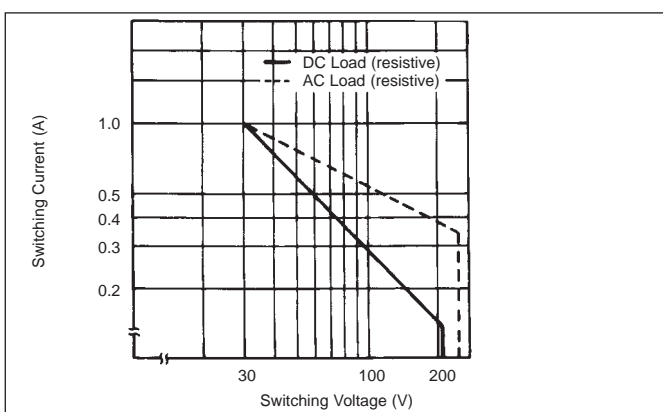
Contact resistance



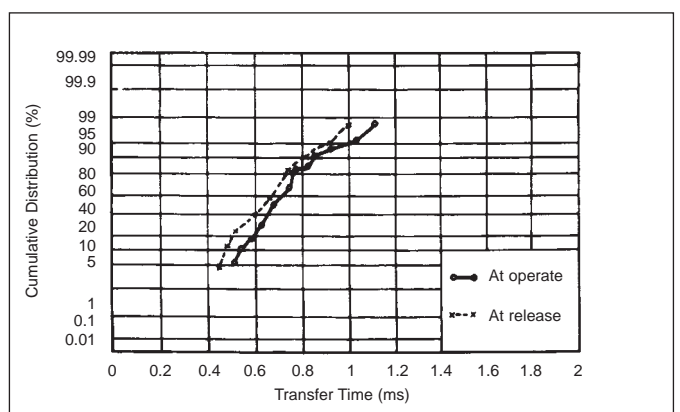
Release time with diode



Switching capacity

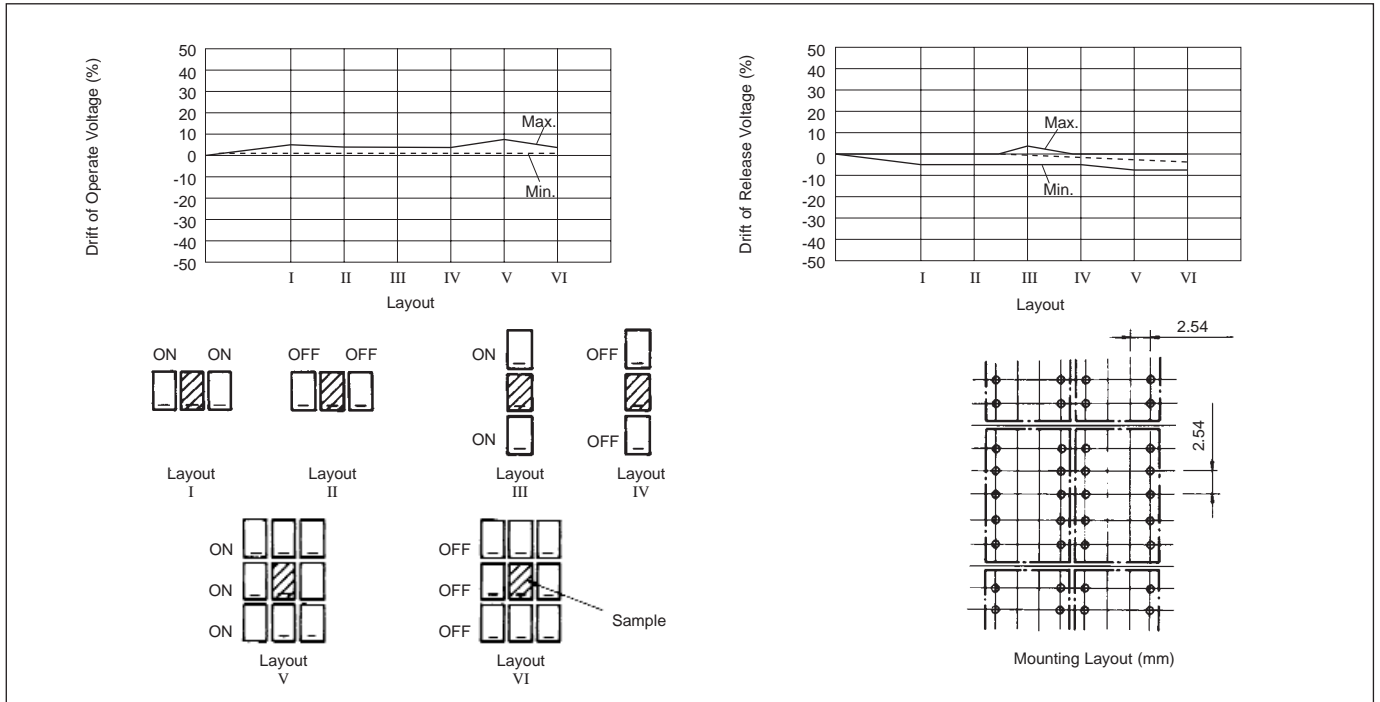


Transfer time

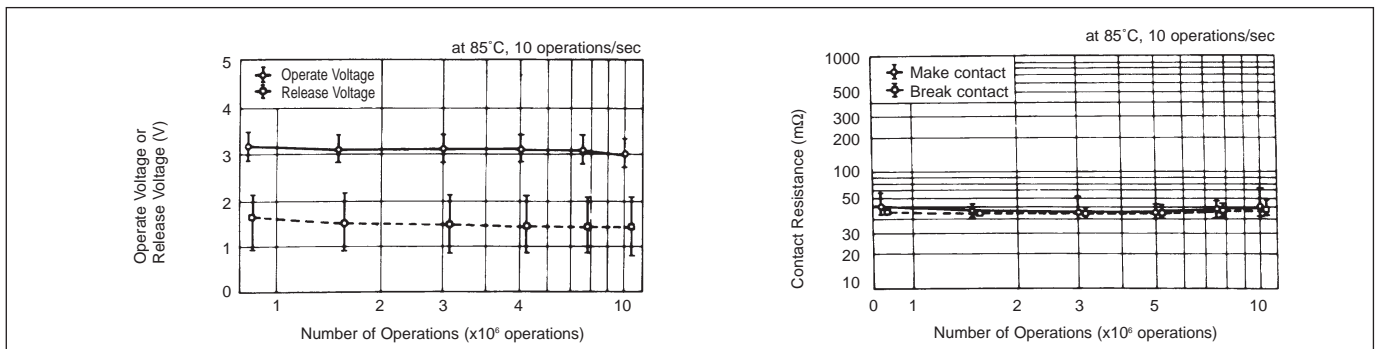


Data (continued)

Magnetic interference (EA2 relay)



Mechanical life



NOTE

1. The latch type relay should be initialised at the appointed position (set or reset position) when using, and should be energised or de-energised to the specified polarity to avoid wrong operations.
2. Ultrasonic cleaning is not recommended. Alcohol or chlorosene based solvents are acceptable as cleaning solvents.
3. Excessive stress on the relay cover is detrimental to reliable operation of the relay.

Options and ordering codes

