



RZ SERIES

INDUSTRIAL RELAYS

UL & CUL File #E256619
TUV Certified File #R50182350

FEATURES

1. Size 10.2 x 18.2 x 15mm
2. Subminiature type.

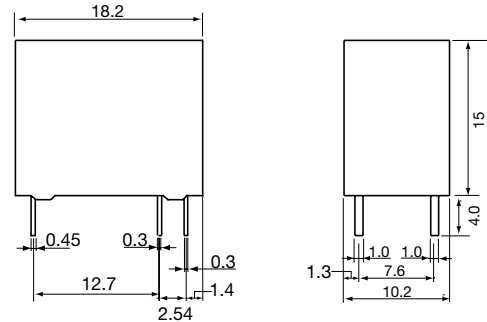
ORDERING INFORMATION

RZ 1A - 12 H S F
(1) (2) (3) (4) (5) (6)

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>(1) Basic Designation RZ = RZ Series</p> <p>(2) Contact Arrangement 1A = 1 Form A (SPST-NO)</p> <p>(3) Coil Voltage 3~48V (48V is not TUV certified)</p> | <p>(4) Coil Sensitivity Nil = 450mW H = 200mW (not TUV certified)</p> <p>(5) Enclosure Nil = Unsealed S = Sealed</p> <p>(6) Insulation System Nil = Standard B = Class B F = Class F</p> |
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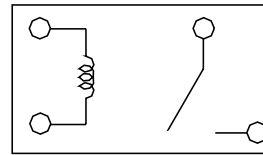
DIMENSIONS

Unit: mm



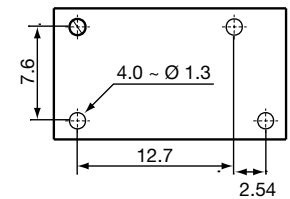
SCHEMATICS

Bottom view



PCB LAYOUT

Bottom view
Unit: mm



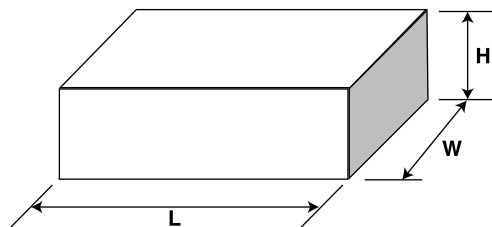
COIL RATINGS (AT 20°C)

| Coil Sensitivity Part Number Code | Coil Nominal Voltage (VDC) | Coil Resistance ($\Omega \pm 10\%$) | Pick-up Voltage (VDC) | Drop-Out Voltage (VDC) | Nominal Current (mA) |
|-----------------------------------|----------------------------|---------------------------------------|-----------------------|------------------------|----------------------|
| Nil = 450mW | 3 | 20 | 75% Max. | 5% Min. | 150 |
| | 5 | 55 | | | 91 |
| | 6 | 80 | | | 75 |
| | 9 | 180 | | | 50 |
| | 12 | 320 | | | 37.5 |
| | 18 | 720 | | | 25 |
| H = 200mW | 24 | 1280 | 75% Max. | 5% Min. | 18.8 |
| | 3 | 45 | | | 67 |
| | 5 | 125 | | | 40 |
| | 6 | 180 | | | 33.3 |
| | 9 | 400 | | | 22.5 |
| | 12 | 720 | | | 16.7 |
| | 18 | 1620 | 11.1 | | |
| | 24 | 2800 | 8.16 | | |

Max continuous Voltage at 20°C: 130% of Coil Nominal Voltage.

PACKAGING

L = Approx. 372mm
W = Approx. 227mm
H = Approx. 131mm



| MODEL NO. | INNER PACKING METHOD/ QTY | QTY/CTN (PCS) | N.W. (Kg) | G.W. (Kg) |
|-----------|-----------------------------|---------------|-----------|-----------|
| RZ | (100/tray) (5 tray/box x 2) | 1000 pcs | 6kg | 7kg |





CONTACT RATINGS

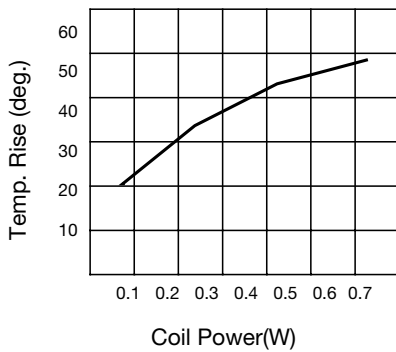
| Contact Arrangement | 1 Form A (SPST-NO) | |
|---------------------------------------------|---------------------------------------------------|------------------------------------|
| Coil Sensitivity | 450mW | 200mW |
| Max. Switching Power | 1200VA 140W | 600VA 90W |
| Max. Switching Voltage | 265VAC 30VDC | |
| Max. Switching Current | 10A | 3A, 5A |
| Contact Resistance (By voltage drop 6V 1A) | 50mΩ max. | |
| VDE Rating Resistive Load | 3A / 5A 250VAC | |
| UL / C-UL Rating Resistive Load (cos Ø = 1) | 10A 120VAC 5A 250VAC 5A 28VDC 10A 250VAC | 5A 120VAC 3A 250VAC 3A 28VDC |
| Inductive Load (cos Ø = 0.75 ~ 0.8) | 1.5A 250VAC | 1A 250VAC |
| Operate Time | 10msec. Max. | 15msec. Max. |
| Contact Material | silver alloy | |

CHARACTERISTICS

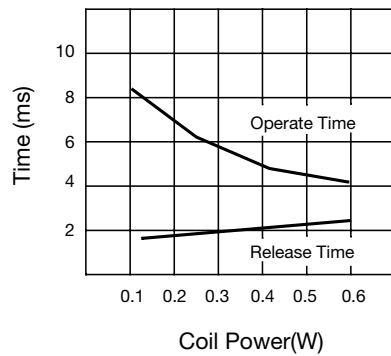
| | |
|------------------------------|--------------------------------------------------------------------------------------------------------------|
| Electrical Life at 25cpm | 1 x 10 ⁵ |
| Mechanical Life at 120cpm | 1 x 10 ⁷ |
| Insulation Resistance | Min. 1000MΩ (500VDC) |
| Release Time | 4ms max. |
| Initial Breakdown Voltage | 50/60Hz 4000VAC 1 min. (between coil and contact) 50/60Hz 1000VAC 1 min. (between open contacts) |
| Vibration Resistance | Malfunction: 10 to 55Hz at Double Amplitude of 1.5mm Destructive: 10 to 55Hz at Double Amplitude of 1.5mm |
| Shock Resistance | Malfunction: 10G(min.) Destructive: 100G(min.) |
| Insulation withstand Voltage | 5000V 1.2 x 50ms (between coil and contacts) |
| Ambient Temperature | -40°C ~ +85°C |
| Operating Humidity | 45 to 85% RH |
| Unit Weight | Approx. 6g |

REFERENCE DATA

Coil Temperature Rise



Operate Time/ Release Time



Life Expectancy

