

RIC25-002/UC24V

2 or 4 pole | 25 A | 5.4 kW



Main circuit

| | |
|---|------------------------------|
| Available contact materials | ⚡ AgNi |
| Rated voltage | 400 V AC |
| Rated current AC-1 | 25 A |
| Recommended minimum contact load | 50 mA, 17 V |
| Inrush current | 60 A, 100 ms / 280 A, 300 μs |
| Rated load AC-1 | 5.4 kW |
| Rated load AC-3 | 1.3 kW |
| Rated load DC-1 | see fig. 2 |
| Mechanical endurance (cycles) | ≥ 10 000 000 |
| Electrical endurance at rated load AC-1 (cycles) | ≥ 200 000 |
| Electrical endurance at rated load AC-3 (cycles) | ≥ 500 000 |
| Electrical endurance at rated load DC-1 (cycles) | ≥ 100 000 |
| Switching frequency at rated load AC-1 (cycles / h) | ≤ 600 |
| Switching frequency at rated load AC-3 (cycles / h) | ≤ 600 |
| Switching frequency at rated load DC-1 (cycles / h) | ≤ 300 |

Control circuit

| | | |
|---------------------------|------------------------------|--------------------|
| Nominal voltage | see table product references | |
| Operating voltage range | 0.85 ... 1.1 U _N | |
| Pick-up voltage | ≤ 0.85 U _N | |
| Release voltage | ≥ 0.1 U _N | |
| Pick-up time | 15 ... 45 ms | |
| Release time | 20 ... 70 ms | |
| Power consumption AC / DC | 2.6 VA / 2.6 W | |
| Frequency range | 50 / 60 Hz (AC) | 40 ... 500 Hz (UC) |

Insulation

| | |
|--|--------------|
| Rated insulation voltage | 440 V |
| Rated impulse withstand voltage open contact | 4 kV / 1 min |
| Pollution degree | 3 |
| Overvoltage category | III |
| Clearance of open contact | 3.6 mm |

Wiring

| | |
|--|---|
| Contact type control / main circuit | screw connection, M3 / M3.5 |
| Conductor cross section control / main circuit | 2.5 mm ² / 6 mm ² |
| Stripping Length control / main circuit | 7 mm / 9 mm |
| Nominal screw torque control / main circuit | 0.6 Nm / 1.2 Nm |
| Screwdrive control / main circuit | PZ1 / PZ1 |
| Max. wire count control / main circuit | 1 |
| Dual sleeve control / main circuit | 1 |

Housing and environmental conditions

| | |
|------------------------------------|---|
| Storage temperature (no ice) | -30 ... 80 °C |
| Operation temperature | -15 ... 55 °C |
| Relative humidity, no condensation | 95 % relative humidity |
| Ingress Protection | IP20 |
| Weight | 230 g |
| Housing material | PA 6 |
| Operation Altitude | Max. 2 000 m |
| Mounting | DIN rail |
| Dimensions | 85 x 35 x 65 mm |
| Vibration test | switched off: 2 g (Z and X axis) / switched on: 3 g (Z axis) and 1 g (X axis) |
| Shock test | switched off: 10 g (Z and X axis) / switched on: 15 g (Z axis) and 2 g (X axis) |



fig. 1. Wiring diagram

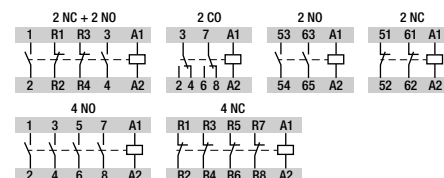
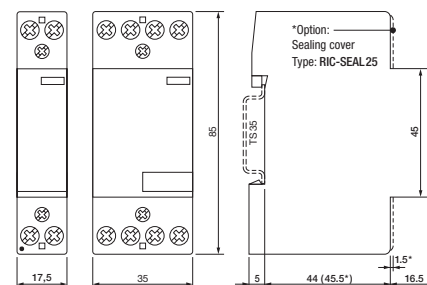


fig. 2. Dimensions (mm)



Technical approvals, conformities

Standards IEC/EN 60947; IEC/EN 61095

Approvals

RIC25-002/UC24V

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Safety

| | |
|---|----------|
| MTTF - Mean time to failure, AC-1 (h) | 5,000 |
| MTTF = $1/\lambda = B10/(0.1 n_{op})$, AC-3 (h) | 7,500 |
| MTTF _d - Mean time to failure dangerous, AC-1 (h) | 6,666 |
| MTTF _d = $1/\lambda = B10_d/(0.1 n_{op})$ | 10,000 |
| B10 - Number of operating cycles until 10 % of devices fail, AC-1 | 150,000 |
| B10 - Number of operating cycles until 10 % of devices fail, AC-3 | 225,000 |
| B10 _d - Number of operating cycles until 10 % of devices dangerous, AC-1 | 200,000 |
| B10 _d = B10/ratio of dangerous failures, AC-3 | 300,000 |
| λ - Failure rate, AC-1 (1/h) | 0.0002 |
| $\lambda = (0.1 n_{op})/B10$, AC-3 (1/h) | 0.000133 |
| λ_d - Failure rate dangerous, AC-1 (1/h) | 0.00015 |
| $\lambda_d = (0.1 n_d)/B10_{op}$, AC-3 (1/h) | 0.0001 |
| Ratio of dangerous failures (%) | 75 |
| n_{op} - Operating cycles (operating cycles/h) | 300 |

Product references

| Description | Type | 24 |
|-------------|------------------|----|
| 2 CO | RIC25-002/UC...V | ✓ |

Other voltages on request. Please contact support@comatreleco.com.
 «...» List control circuit voltage to complete product references.

Accessories

| | |
|---------------|--|
| Sealing cover | RIC-SEAL20 |
| Spacer | RIC-DIST |
| End covers | RIC-EK-11 (BAG 25 PCS), RIC-EK-23 (BAG 10 PCS), RIC-EK-40 (BAG 10 PCS) |
| Busbar | RIC-PS-1-2, RIC-NS-1-1 |



fig. 1. Wiring diagram

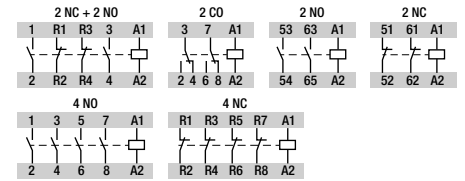
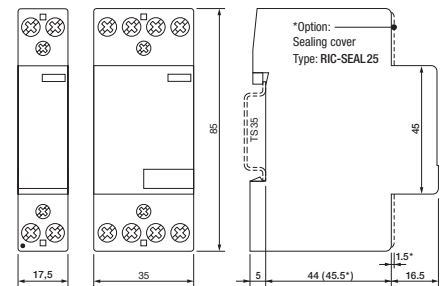


fig. 2. Dimensions (mm)



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