

RIC25-002-R/DC36V

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
Electrical endurance at rated load DC-5 (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
Switching frequency at rated load DC-3 (cycles / h)	≤ 300
Switching frequency at rated load DC-5 (cycles / h)	≤ 300

Control circuit

Nominal voltage	see table product references
Operating voltage range	0.70 ... 1.25 U _N
Pick-up voltage	≤ 0.70 U _N
Release voltage	≥ 0.1 U _N
Pick-up time	15 ... 45 ms
Release time	20 ... 70 ms
Power consumption DC	4.6 W

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)	-40 ... 80 °C
Operation temperature	-40 ... 70 °C
Relative humidity, no condensation	95 %
Ingress Protection	IP 20
Weight	250 g
Housing material	PA 6
Operation Altitude	Max. 2 000 m
Mounting	DIN rail
Dimensions	see fig. 3
Mounting position	see installation instructions



fig. 1. Wiring diagram

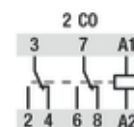


fig. 2. DC load limit curve

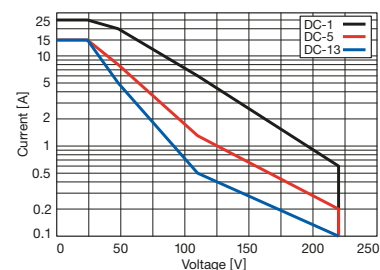
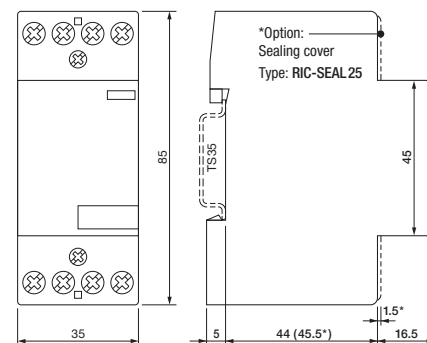


fig. 3. Dimensions (mm)



Technical approvals, conformities

Standards IEC/EN 60947

Railway EN 50155; EN 45545-2

Approvals

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Safety

MTTF - Mean time to failure, AC-1 (h)	5,000
MTTF = 1/λ = 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/λ = 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
λ = (0.1 n _{op})/B10, AC-3 (1/h)	0.000133
λ _d - Failure rate dangerous, AC-1 (1/h)	0.00015
λ _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	36
2 CO	RIC25-002-R/DC...V	✓

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

Accessories

Busbar	RIC-NS-1-1-R, RIC-PS-1-2-R
End covers	RIC-EK-11, RIC-EK-23



fig. 1. Wiring diagram

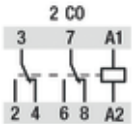


fig. 2. DC load limit curve

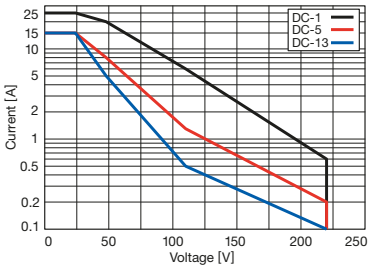
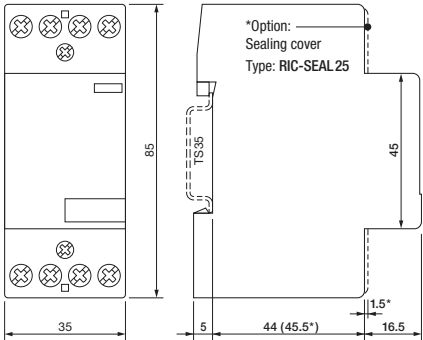


fig. 3. Dimensions (mm)



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