Installation Contactor

RIC25 (Railway)

25 A, AC/DC control voltage, silent operation
DIN Rail mounting according to DIN 43 880

Type: RIC25-xxx/ …V
Hum-free installation contactor, 4 contacts, 4 NO, 4 NC, 2 NO-2 NC types available

Rated operational power AC-1

- Single phase: 5.4 kW/230 V, 0.5 A/220 V DC-1
- 3 phase 230 V: 9 kW
- 3 phase 400 V: 16 kW

Recommended minimum contact load
10 mA / 24 V

Contacts

- Material: AgNi
- Rated operational current: 25 A
- Max. inrush current (100ms): 50 A
- Max. switching voltage: 400 V
- Max. AC load 3 phase: AC-1, AC-7a
  - 9 kW / 230 V, 16 kW / 400 V
- AC-3
  - 2.2 kW / 230 V, 4 kW / 400 V
- Max. DC load 24V/220V DC-1 (Fig. 1)
  - 600 W / 130 W

Control input Vn =

- Operating voltage range [V]
  - UC 24 V: 20.4 … 26.4
  - UC 36 V: 30.6 … 39.6
  - UC 230 V: 195 … 253
- Typ. pic up voltage [V]
  - UC 24 V: 17
  - UC 36 V: 25
  - UC 230 V: 160
- Typ. release voltage [V]
  - UC 24 V: 7
  - UC 36 V: 11
  - UC 230 V: 70
- Power consumption [W]
  - UC 24 V: ≤ 3
  - UC 36 V: ≤ 3
  - UC 230 V: ≤ 3
- Inductive turn-off voltage
  - None
- Surge immunity
  - EN 6100-4-5: 2 kV

Insulation

- Rated insulation voltage: 440 V
- Rated impulse withstand voltage: 4 KV
- Min. clearance of open contact: 3.6 mm

General Specifications

- Ambient temperature
  - Storage: -30 … 80 °C
  - Operation, Spacer after 2 contactors side by side: -5 … 55 °C
  - Operation, Spacer after 3 contactors side by side: -5 … 40 °C
- Pick-up time: 15 … 45 ms
- Release time: 20 … 70 ms
- Mechanical life: ≥ 3 x 10^6 operations
- AC voltage endurance at rated load AC-3, AC-7b:
  - ≥ 5 x 10^6 operations
- DC voltage endurance at rated load DC-1:
  - 10^6 operations
- Operating frequency at rated load AC-1, AC-3:
  - ≤ 300 operations / h
- Operating frequency at rated load DC-1:
  - ≤ 600 operations / h
- Conductor cross section coil / contacts terminals:
  - Stranded wire 2.5 mm² / 6 mm²
- Max. Screw torque coil / contacts:
  - 0.6 Nm / 1.2 Nm
- Ingress protection degree: IP 20
- Weight: 270 g

Standard types

- UC (AC / DC) 50 / 60 Hz, 24, 36, 230
- 4NO
- 2NO + 2NC
- 4NC

"..." enter the voltage for full type designation

Accessories

- Auxiliary contact bloc: RIC-AUX...
- Sealing cover: RIC-SEAL 25
- Spacer: RIC-DIST

Samples of lamp loads

- Incandescent lamps 230 V/ 100 W: 20
- Fluorescent lamps not corrected 230 V/ 36 W: 20
- Fluorescent lamps electronic ballast units 36 W: 20

Mounting information

- If multiple contactors are mounted side by side, spacers (RIC DIST) have to be inserted for the purpose of heat dissipation.

Example:

- Ambient temperature up to 40°C: 1 spacer after 3 RIC // 40°…55°C: 1 spacer after 2 RIC.

This issue replaces all previous issues. Availability, errors and specifications subject to change without notice.