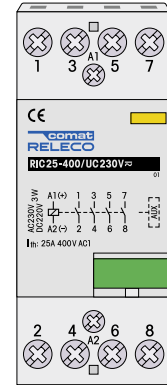


Installation Contactor

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 $V_n =$

	UC 24 V	UC 36 V	UC 230 V
Operating voltage range [V]	20.4 ... 26.4	30.6 ... 39.6	195 ... 253
Typ. pick up voltage [V]	17	25	160
Typ. release voltage [V]	7	11	70
Power consumption [W]	≤ 3	≤ 3	≤ 3
Inductive turn-off voltage	None	None	None
Surge immunity EN 6100-4-5	2 kV	2 kV	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 ⁵ operations
DC voltage endurance at rated load DC-1	10 ⁵ operations
Operating frequency at rated load DC-1	≤ 300 operations / h
Operating frequency at rated load AC-1, AC-3	≤ 600 operations / h
Conductor cross section coil / contacts terminals	Stranded wire 2.5 mm ² / 6 mm ²
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	RIC25-400/UC ...V
	2NO + 2NC	RIC25-220/UC ...V
	4NC	RIC25-040/UC ...V

"..." 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

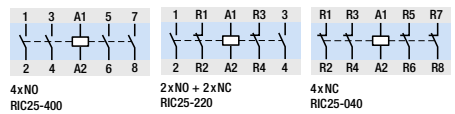
Sample of lamp loads	Number of lamps
Incandescent lamps 230 V/ 100 W	20
Fluorescent lamps not corrected 230 V/ 36 W	20
Fluorescent lamps electronic ballast units 36 W	20

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.

Connection diagram



Coil circuit

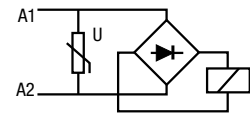
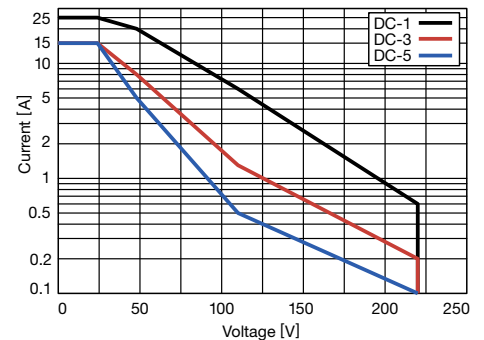
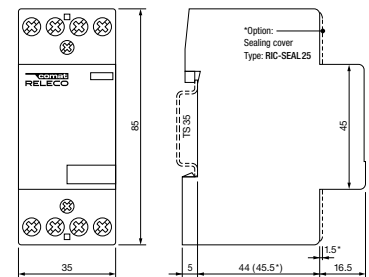


Fig. 1 DC load limit curve DC-1



Dimensions [mm]



Technical approvals, conformities

CE **ROHS**
IEC/EN 60947-4-1
IEC/EN 60947-5-1
IEC/EN 61095