

RIC40

40 A, AC/DC control voltage, silent operation
DIN rail mounting according to DIN 43 880



Type: RIC 40-xxx/...V

Hum-free installation contactor, 4 contacts, 4 NO, 2 NO-2 NC, 4 NC types available

Rated operational power AC-1	Single phase: 8.7 kW/230 V, 0.5 A / 220 V DC-1
	3 phase 230 V: 16 kW
	3 phase 400 V: 26 kW

Recommended minimum contact load 10 mA / 24 V

Contacts

Material	AgSnO ₂
Rated operational current	40 A
Max. inrush current (100ms)	150 A
Max. switching voltage	400 V
Max. AC load 3 phase AC-1, AC-7a	16 kW / 230 V, 26 kW / 400 V
AC-3	3.7 kW / 230 V, 11 kW / 400 V
Max. DC load 24V/220V DC-1(Fig. 1)	960 W / 260 V

Control input V_N = AC 50 / 60 Hz / DC

	UC 24 V	UC 230 V
Operating voltage range [V]	20.4 ... 26.4	195 ... 253
Typ. pic up voltage [V]	17	160
Typ. release voltage [V]	7	70
Power consumption [W]	≤ 5	≤ 5
Inductive turn-off voltage	None	None
Surge immunity EN 6100-4-5	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	≥ 1.5 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 / 16 mm ²
Max. Screw torque coil /contacts	0.6 Nm / 2 Nm
Ingress protection degree	IP 20
Weight	420 g

Standard types

UC (AC / DC) 50 / 60 Hz, 24, 230	4NO	RIC40-400/UC ...V
	2NO + 2NC	RIC40-220/UC ...V
	4NC	RIC40-040/UC ...V

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

Accessories

Auxiliary contact bloc:	RIC-AUX..
Sealing cover:	RIC-SEAL 40-63
Spacer:	RIC-DIST

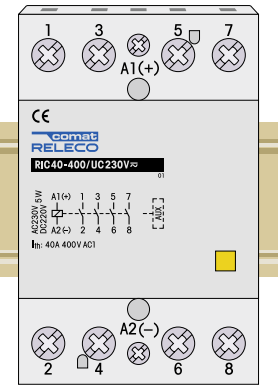
Samples of lamp loads

	Number of lamps
Incandescent lamps 230 V / 100 W	40
Fluorescent lamps not corrected 230 V / 36 W	65
Fluorescent lamps electronic ballast units 36 W	52

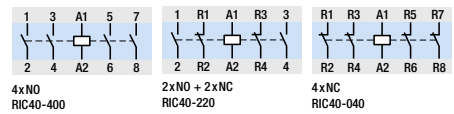
Mounting information

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

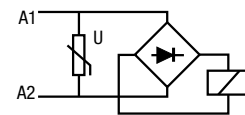
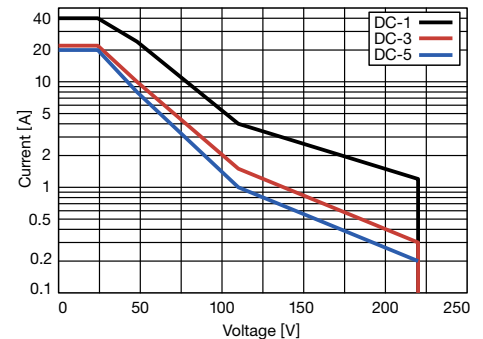
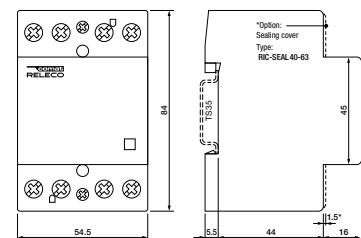


Fig. 1 DC load limit curve DC1



Dimensions [mm]



Technical approvals, conformities

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