

## RIC63

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

### Type: RIC 63-xxx/...V

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

<b>Rated operational power AC-1</b>	<b>Single phase: 13.3 kW/230 V, 1.2 A/220VDC-1</b>
	<b>3 phase 230 V: 24 kW</b>
	<b>3 phase 400 V: 40 kW</b>
<b>Recommended minimum contact load</b>	<b>50 mA / 24 V</b>

### Contacts

Material	AgSnO <sub>2</sub>	
Rated operational current	63 A	
Max. inrush current (100ms)	150 A	
Max. switching voltage	400 V	
Max. AC load 3 phase	AC-1, AC-7a	24 kW / 230 V, 40 kW / 400 V
	AC-3	5 kW / 230 V, 15 kW / 400 V
Max. DC load 24 V / 220 V DC-1(Fig. 1)		1500 W / 260 W

### Control input V<sub>N</sub> = AC 50 / 60 Hz / DC

	UC 24 V	UC 230 V
Operating voltage range [V]	20.4 ... 26.4	195 ... 253
Typ. pick 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 ... 20 ms
Release time	35 ... 45 ms
Mechanical life	≥ 3 x 10 <sup>6</sup> operations
AC voltage endurance at rated load AC-3, AC-7b	≥ 1.5 x 10 <sup>5</sup> operations
DC voltage endurance at rated load DC-1	10 <sup>5</sup> 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 <sup>2</sup> / 16 mm <sup>2</sup>
Max. Screw torque coil /contacts	0.6 Nm / 3.5 Nm
Ingress protection degree	IP 20
Weight	420 g

### Standard types

<b>UC (AC / DC) 50 / 60 Hz, 24, 230</b>	<b>4NO</b>	<b>RIC63-400/UC ...V</b>
"..." enter the voltage for full type designation	<b>2NO + 2NC</b>	<b>RIC63-220/UC ...V</b>

### Accessories

Auxiliary contact bloc:	<b>RIC-AUX..</b>
Sealing cover:	<b>RIC-SEAL 40-63</b>
Spacer:	<b>RIC-DIST</b>

### Samples of lamp loads

Samples of lamp loads	Number of lamps
Incandescent lamps 230 V / 100 W	50
Fluorescent lamps not corrected 230 V / 36 W	95
Fluorescent lamps electronic ballast units 36 W	57

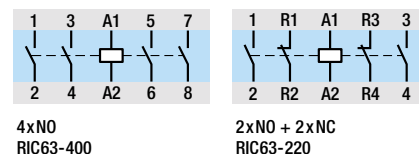
### Mounting information

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

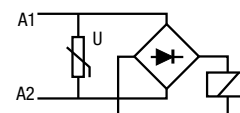
**Example:** Ambient temperature up to 40°C: 1 spacer after 3 RIC // 40...55°C: 1 spacer after 2 RIC.



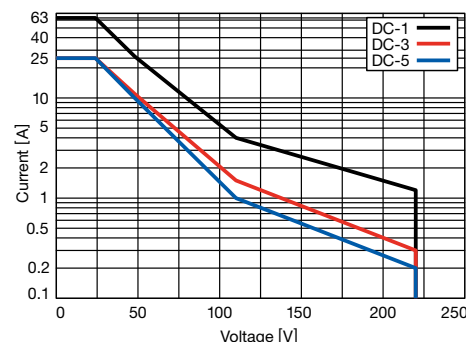
### Connection diagram



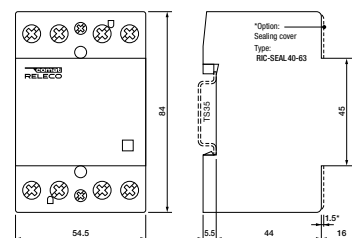
### Coil circuit



**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