Installation Contactor
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

Rated operational power AC-1
Single phase: 13.3 kW/230 V, 1.2 A/220VDC-1
3 phase 230 V: 24 kW
3 phase 400 V: 40 kW

Recommended minimum contact load
10 mA / 24 V

Contacts
Material: AgSnO2
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
Max. AC load 3 phase 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_N = AC 50 / 60 Hz / DC
Operating voltage range [V]: 20.4 … 26.4
Typ. pic up voltage [V]: 17
Typ. release voltage [V]: 7
Power consumption [W]: ≤ 5
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: ≥ 1.5 x 10^5 operations
DC voltage endurance at rated load DC-1: ≥ 300 operations / h
Operating frequency at rated load AC-1, AC-3: ≤ 600 operations / h
Operating frequency at rated load DC-1: ≤ 300 operations / h
Conductor cross section coil /contacts terminals: 0.6 mm² / 2 mm²
Max. Screw torque coil /contacts terminals: 0.6 Nm / 2 Nm
Ingress protection degree: IP 20
Weight: 420 g

Standard types
UC (AC / DC) 50 / 60 Hz, 24, 230
4xNO RIC63-400/UC …V
2xNO + 2 xNC RIC63-220/UC …V

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

Samples of lamp loads
Incandescent lamps 230 V / 100 W: 50
Fluorescent lamps not corrected 230 V / 36 W: 95
Fluorescent lamps electronic ballast units 36 W: 75

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.

Technical approvals, conformities
IEC/EN 60947-4-1
IEC/EN 60947-5-1
IEC/EN 61095

Connection diagram

Dimensions [mm]

Technical approvals, conformities
IEC/EN 60947-4-1
IEC/EN 60947-5-1
IEC/EN 61095