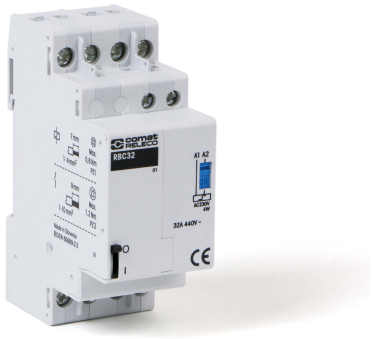
Installation Contactor

RBC32

32 A, AC control voltage, silent operation
DIN Rail mounting according to DIN 43 880

Type: RBC32-xxx/AC230V

Step relay, 4 contacts, 4 NO, 2 NO-2 NC types available



Rated operational power AC-1	**Single phase: 5.5 kW/230 V, 0.7 A/220 V DC-1** **3 phase 230 V: 9 kW** **3 phase 400 V: 16 kW**
Recommended minimum contact load	**100 mA / 10 V**

Contacts

Material		AgNi
Rated operational current		32 A
Max. inrush current (100ms)		50 A
Max. switching voltage		440 V
Max. AC load 3 phase	AC-1, AC-7a	5.5 kW
	AC-3	0.75 kW
Max. DC load 24V/220V	DC-1 (Fig. 1)	600 W / 130 W

Control input V_n =	**AC 230 V**
Operating voltage range [V]	195 … 253
Typ. pic up voltage [V]	160
Typ. release voltage [V]	70
Power consumption [W]	4
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 mm

General Specifications

Ambient temperature		
storage		-30 … 80 °C
operation		-25 … 55 °C
Pick-up time		15 … 45 ms
Release time		20 … 70 ms
Mechanical life		10^6 operations
AC voltage endurance at rated load	AC-3, AC-7b	10^5 operations
DC voltage endurance at rated load	DC-1	10^5 operations
Operating frequency at rated load	DC-1	≤ 900 operations / h
Operating frequency at rated load	AC-1, AC-3	≤ 900 operations / h
Conductor cross section coil / contacts terminals		Stranded wire 4 mm^2 / 10 mm^2
Max. Screw torque coil / contacts		0.6 Nm / 1.2 Nm
Ingress protection degree		IP 20
Weight		192 g

Standard types

AC 50 / 60 Hz, 230	**4NO**	**RBC32-400/AC230V**
„…“ enter the voltage for full type designation	**2NO + 2NC**	**RBC32-220/AC230V**

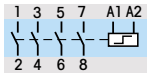
Accessories

Auxillary contact bloc:	**RBC-AUX..**

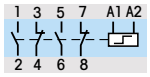
Samples of lamp loads	**Number of lamps**
Incandescent lamps 230 V/ 100 W	35
Fluorescent lamps not corrected 230 V/ 36 W	57
Fluorescent lamps electronic ballast units 36 W	75

Mounting information
If multiple contactors are mounted side by side, spacers (RBC 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 RBC.

Connection diagram

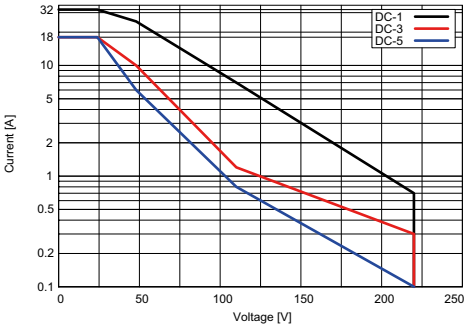


4xNO
RBC32-400

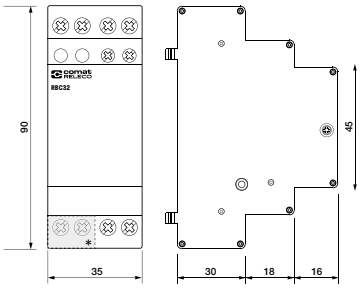


2xNO +2xNC
RBC32-220

Fig. 1 DC load limit curve DC-1



Dimensions [mm]



Technical approvals, conformities

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