

**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

<b>Rated operational power AC-1</b>	<b>Single phase: 5.5 kW/230 V, 0.7 A/220 V DC-1</b>
	<b>3 phase 230 V: 9 kW</b>
	<b>3 phase 400 V: 16 kW</b>

**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<sub>n</sub> =**

**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 <sup>6</sup> operations
AC voltage endurance at rated load AC-3, AC-7b	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	≤ 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 <sup>2</sup> / 10 mm <sup>2</sup>
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**

„...“ enter the voltage for full type designation

<b>4NO</b>	<b>RBC32-400/AC230V</b>
<b>2NO + 2NC</b>	<b>RBC32-220/AC230V</b>

**Accessories**

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

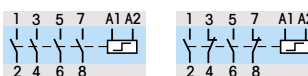
**Samples of lamp loads**

**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



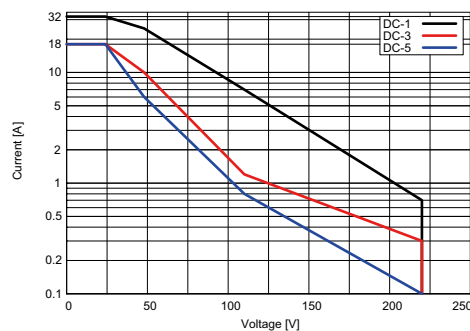
**Connection diagram**



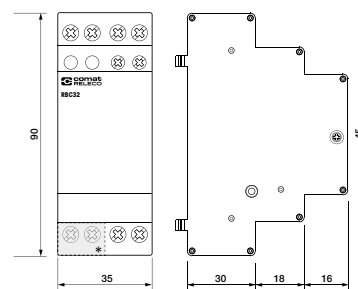
4xNO  
RBC32-400

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

**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.