

RBC20-200/AC24V

2 or 4 pole | 20 A | 4.4 kW | Step switch | Manual lever 0 - 1 - Lock



Main circuit

Available contact materials	AgNi
Rated voltage	400 V AC
Rated current AC-1	20 A
Recommended minimum contact load	100 mA, 10 V
Inrush current	50 A, 100 ms / 180 A, 300 µs
Rated load AC-1	4.4 kW
Rated load AC-3	0.55 kW
Rated load DC-1	see fig. 2
Mechanical endurance (cycles)	≥ 1 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 100 000
Electrical endurance at rated load AC-3 (cycles)	≥ 100 000
Electrical endurance at rated load DC-1 (cycles)	≥ 100 000
Switching frequency at rated load AC-1 (cycles / h)	≤ 600
Switching frequency at rated load AC-3 (cycles / h)	≤ 600
Switching frequency at rated load DC-1 (cycles / h)	≤ 300

Control circuit

Nominal voltage	see table product references
Operating voltage range	0.9 ... 1.1 U _N
Pick-up voltage	≤ 0.75 U _N
Release voltage	≥ 0.1 U _N
Minimal impulse duration at rated voltage U _N	50 ms
Minimal impulse duration at 0.9 U _N	100 ms
Minimal pause between two impulses	150 ms
Maximal impulse duration	≤ 15 / min
Maximal number of impulses	≤ 60 / min
Pick-up time	5 ... 35 ms
Release time	5 ... 35 ms
Power consumption AC / DC	9 VA / 4 W
Frequency range	50 / 60 Hz

Insulation

Rated insulation voltage	440 V
Rated impulse withstand voltage open contact	4 kV / 1 min
Pollution degree	3
Overvoltage category	III
Clearance of open contact	> 3 mm

Wiring

Contact type control / main circuit	Screw connection, M3 / M4
Conductor cross section control / main circuit	4 mm ² / 10 mm ²
Stripping Length control / main circuit	7 mm / 9 mm
Nominal screw torque control / main circuit	0.6 Nm / 1.2 Nm
Screwdrive control / main circuit	PZ1 / PZ2

Housing and environmental conditions

Storage temperature (no ice)	-30 ... 80 °C
Ambient temperature operation 2 devices, 1 spacer	40 ... 55 °C
Ambient temperature operation 3 devices, 1 spacer	-15 ... 40 °C
Relative humidity, no condensation	95 %
Ingress Protection	IP 20
Weight	135 g
Housing material	PA 6
Operation Altitude	Max. 2 000 m
Mounting	DIN rail
Dimensions	see fig. 3
Vibration test	3 g (Z axis)
Shock test	15 g (Z axis)

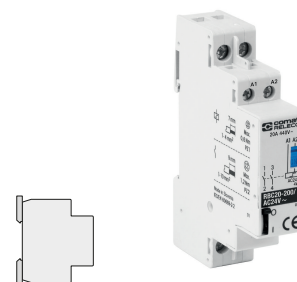


fig. 1. Wiring diagram

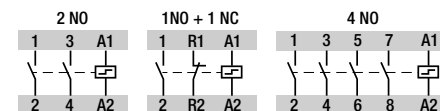


fig. 2. DC load limit curve

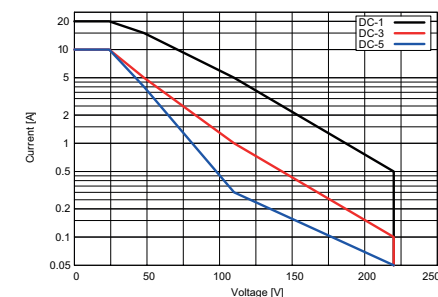
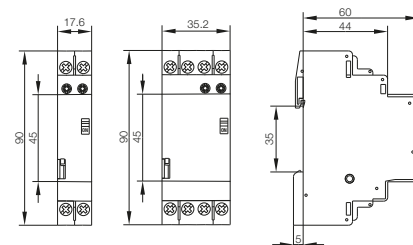


fig. 3. Dimensions (mm)



Technical approvals, conformities

Standards IEC/EN 60947; IEC/EN 61095

Approvals

RBC20-200/AC24V
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Safety

Table with 2 columns: Safety parameter and value. Includes MTTF, B10, lambda, and operating cycles.

Product references

Table with 3 columns: Description, Type, and a checkmark. Includes 2 NO configuration and product reference RBC20-200/AC...V.

Accessories

Table with 2 columns: Accessory and part number. Includes Auxiliary contact, Spacer, and Auxiliary modules.

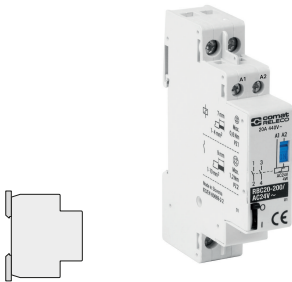


fig. 1. Wiring diagram

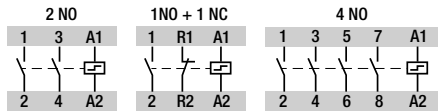


fig. 2. DC load limit curve

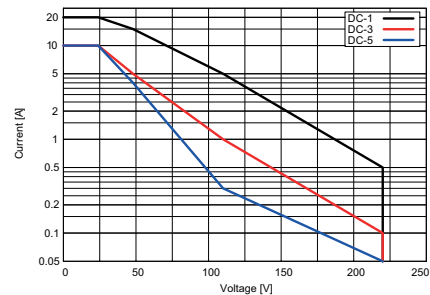
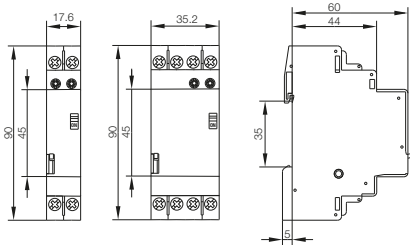


fig. 3. Dimensions (mm)



Technical approvals, conformities

Standards IEC/EN 60947; IEC/EN 61095
Approvals CE ENEC UKCA