

RAC20-200/UC230V

2 pole | 20 A | 4 kW | manual lever Auto - 1 - Lock



Main circuit

Available contact materials	AgNi
Rated voltage	400 V AC
Rated current AC-1	20 A
Recommended minimum contact load	50 mA, 17 V
Inrush current	50 A, 100 ms / 180 A, 300 μ s
Rated load AC-1	4 kW
Rated load AC-3	1.3 (NO) / 0.75 (NC) kW
Rated load DC-1	see fig. 2
Mechanical endurance (cycles)	$\geq 10\,000\,000$
Electrical endurance at rated load AC-1 (cycles)	$\geq 200\,000$
Electrical endurance at rated load AC-3 (cycles)	$\geq 300\,000$
Electrical endurance at rated load DC-1 (cycles)	$\geq 100\,000$
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	0.85 ... 1.1 U_N
Pick-up voltage	$\leq 0.85 U_N$
Release voltage	$\geq 0.1 U_N$
Pick-up time	15 ... 45 ms
Release time	20 ... 50 ms
Power consumption AC / DC	2.1 VA / 2.1 W
Frequency range	40 ... 500 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	3.6 mm

Wiring

Contact type control / main circuit	Screw connection, M3.5 / M3.5
Conductor cross section control / main circuit	2.5 mm ² / 6 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 / PZ1

Housing and environmental conditions

Storage temperature (no ice)	-40 ... 80 °C
Operation temperature	-25 ... 70 °C
Relative humidity, no condensation	95 % relative humidity
Ingress Protection	IP 20
Weight	130 g
Housing material	PA 6
Operation Altitude	Max. 2 000 m
Mounting	DIN rail
Dimensions	85 x 17.5 x 65 mm
Vibration test	switched off: 2 g (Z and X axis) / switched on: 3 g (Z axis) and 1 g (X axis)
Shock test	switched off: 10 g (Z and X axis) / switched on: 15 g (Z axis) and 2 g (X axis)



fig. 1. Wiring diagram

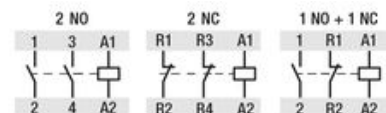


fig. 2. DC load limit curve

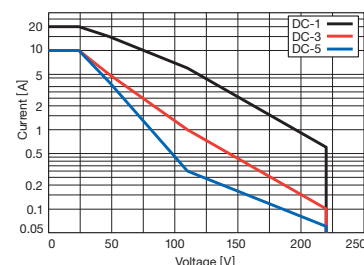
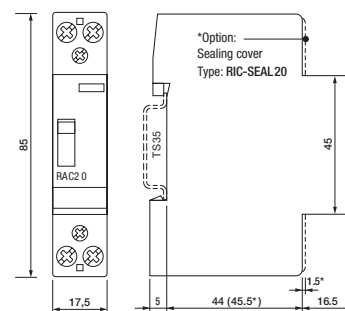


fig. 3. Dimensions (mm)



Technical approvals, conformities

Standards IEC/EN 60947; IEC/EN 61095

Approvals

RAC20-200/UC230V
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Safety

Table with 2 columns: Safety parameter and value. Includes MTTF, B10, B10d, lambda, and n_op values for AC-1 and AC-3.

Product references

Table with 3 columns: Description, Type, and a checkmark. Includes 2 NO configuration and product reference RAC20-200/UC...V.

Accessories

Table with 2 columns: Accessories and their corresponding part numbers. Includes Sealing cover, Spacer, Busbar, and End covers.



fig. 1. Wiring diagram

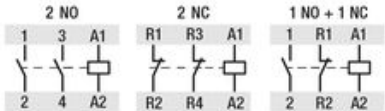


fig. 2. DC load limit curve

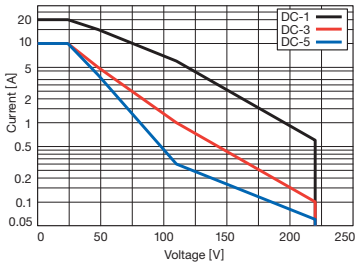
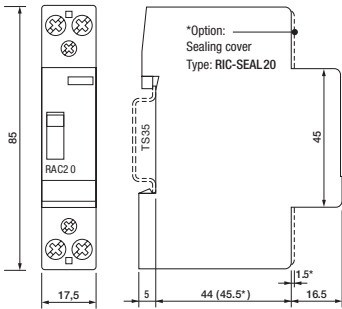


fig. 3. Dimensions (mm)



Technical approvals, conformities

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