

RIC20-110/UC24V

2 pole | 20 A | 4 kW



Main circuit

Available contact materials	AgNi
Rated voltage	230 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 µs
Rated load AC-1 single-phase 230 V	4 kW
Rated load AC-3	1.3 (NO) / 0.75 (NC) kW
Rated load DC-1	see fig. 2
Mechanical endurance (cycles)	≥ 10 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 200 000
Electrical endurance at rated load AC-3 (cycles)	≥ 300 000
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	0.85 ... 1.1 U _N
Pick-up voltage	≤ 0.85 U _N
Release voltage	≥ 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 / 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
Max. wire count control / main circuit	1
Dual sleeve control / main circuit	1

Housing and environmental conditions

Storage temperature (no ice)	-30 ... 80 °C
Operation temperature	-15 ... 55 °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	17.5 x 65.5 x 85 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

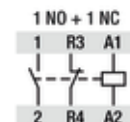


fig. 2. DC load limit curve

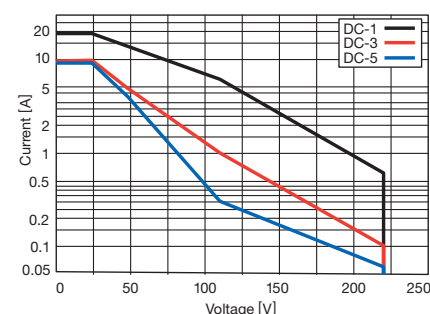
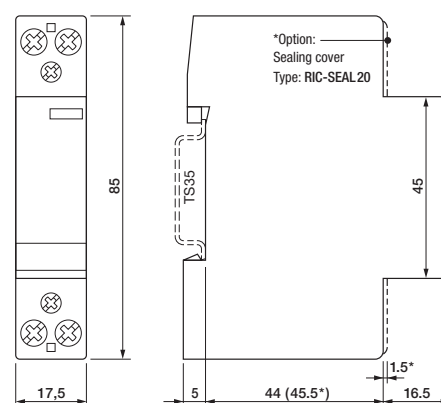


fig. 3. Dimensions (mm)



Technical approvals, conformities

Standards IEC/EN 60947; IEC/EN 61095

Approvals

2 pole | 20 A | 4 kW



1 NO + 1 NC

1	R3	A1
2	R4	A2

Description	Type	24
1 NO + 1 NC	RIC20-110/UC...V	✓

Voltage [V]	DC-1 Current [A]	DC-3 Current [A]	DC-5 Current [A]
0	10	10	10
25	20	10	10
50	15	5	5
100	7	2	0.4
125	5	1.5	0.3
220	0.6	0.1	0.05

*Option: Sealing cover
Type: RIC-SEAL20

TS356

85

17.5

45

1.5"

5

44 (45.5")

16.5

Approvals