

B103/UC48V

1 pole | Power Relay



Main circuit

Available contact materials	⚡ AgSnO ₂
Recommended minimum contact load	10 mA / 12 V
Maximum contact load AC-1	10 A / 250 V
Maximum contact load DC-1	6 A / 30 V
Rated current	10 A
Inrush current	16 A, 20 ms
Operating voltage	See table product references
Rated load AC	2 500 VA
Rated load DC	fig. 3.
Mechanical endurance (cycles)	≥ 20 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 200 000
Number of contacts	1 CO

Control circuit

Nominal voltage	see table product references
Operating voltage range	0.85 U _N ... 1.15 U _N
Pick-up voltage	0.85 U _N
Release voltage	≥ 0.1 U _N
Pick-up time	20 ms
Release time	12 ms
Power consumption AC	5.5 VA
Power consumption DC	1.2 W

Insulation

Contact/contact	4 kV / 1 min
Contact / coil	2 kV / 1 min
Overvoltage category	III
Rated impulse withstand voltage open contact	1 kV / 1 min
Pollution degree	3

General data

Storage temperature (no ice)	-40 ... 85 °C
Operation temperature	-20 ... 55 °C
Conductor cross section	solid wire 1 x 4 mm ² , 2 x 1.5 mm ² , stranded & crimped wire 1 x 2.5 mm ² , 2 x 1.5 mm ²
Nominal screw torque	0.5 Nm
Ingress Protection	IP 20
Mounting	TH35 (EN 60715)
Weight	60 g
Housing material	PA / PC



fig. 1. Wiring diagram

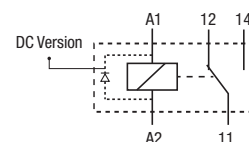


fig. 2. AC voltage endurance

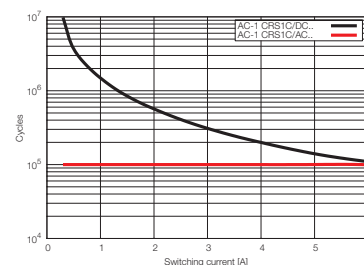


fig. 3. DC load limit curve

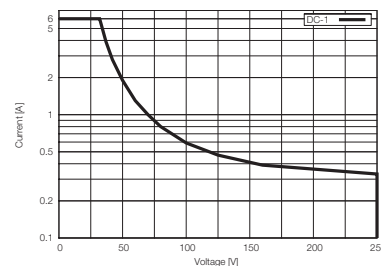
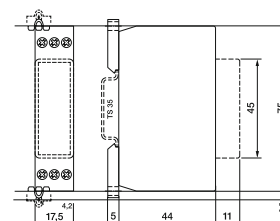


fig. 4. Dimensions (mm)



Technical approvals, conformities

Standards EN 61810

Approvals