C3-R20N/DC48V

2 pole | changeover contact | remanence

Main circuit

Available contact materials	AgNi
Recommended minimum contact load	10 mA / 10 V
Maximum contact load AC	10 A / 250 V AC-1
Maximum contact load DC	10 A / 30 V DC-1
Inrush current	30 A, 20 ms
Rated load AC	2 500 VA
Rated load DC	fig. 3.
Rated current	10 A
Mechanical endurance (cycles)	≥ 20 000 000
Electrical endurance at rated load AC-1 (cycles)	≥ 500 000

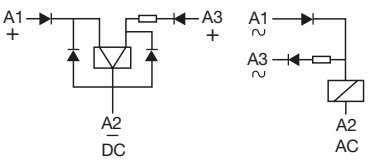
Control circuit

Nominal voltage	see table product references
Operating voltage range	0.8 U_N … 1.1 U_N
Pick-up voltage	≤ 0.8 U_N
Release voltage	≤ 0.8 U_N
ON pulse power	AC 1.8 VA, DC 1.5 W
OFF pulse power	AC 0.3 VA, DC 0.5 W

Coil table

V AC	mA ON	mA OFF	V DC	mA ON	mA OFF
24	88	8	12	121	32
48	31	5	24	60	18
115	13	2	36	45	15
230	8	0.7	48	32	7
			60	25	9
			72	21	9
			110	12.4	3.2

Internal diagram



Insulation

Test voltage open contact	1 kV / 1 min
Test voltage contact / contact	2.5 kV / 1 min
Test voltage contact / coil	2.5 kV / 1 min
Overvoltage category	III
Insulation resistance at 500 V	≥ 1 GΩ
Pollution degree	3

General data

Storage temperature (no ice)	-40 … 80 °C
Operation temperature	-40 … 60 °C
Minimum pulse length ON / OFF	50 ms
Maximum switching frequency at rated load	1 200 / h
Weight	81 g
Housing material	PA / PC

Product references

Description	Type	48
DC	C3-R2xN/DC...V	✓

AC relays also available as 60 Hz. Other voltages on request. Please contact support@comatreleco.com.
«…» List coil voltage to complete product references
Test Dani



fig. 1. Wiring diagram

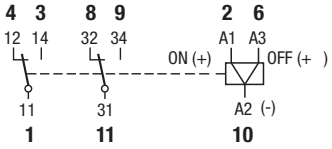


fig. 2. AC voltage endurance

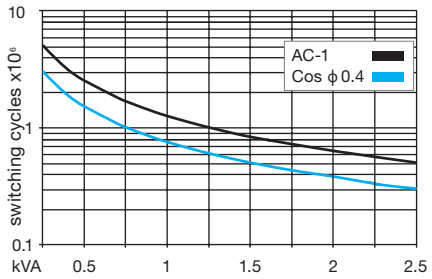


fig. 3. DC load limit curve

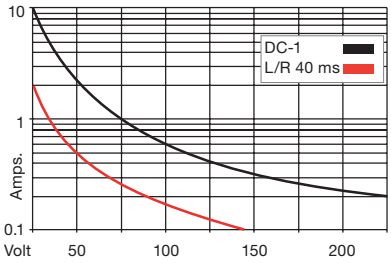
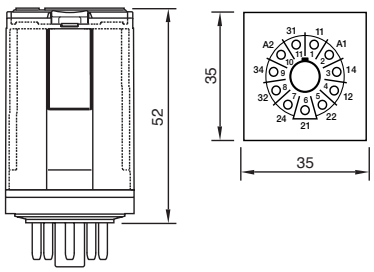


fig. 4. Dimensions (mm)



Technical approvals, conformities

Standards IEC/EN 60947; IEC/EN 61810

Approvals