

CNR1

**Running without auxiliary voltage, mechanical changeover output contact, 2 time functions, 0.1 s ... 12 minutes
DIN Rail mounting according to DIN 43 880**

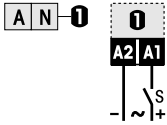


Type: CNR1/... V R

time relay, 1 changeover contact, 250 V, UC 24 ... 60 V, UC 110 ... 240 V operation voltages, 2 time functions, time ranges: 0.1 s ... 20 minutes, LED for supply voltage state indication, also suitable for panel mounting 2 x M4

Maximum contact load 5 A / 250 V AC-1 5 A / 30 V DC-1
Recommended minimum contact load 1 mA / 0.1 V

Time functions and related connection diagrams (Function diagrams: refer to page 130)



Time data

4 partial time ranges, t_{max} (DIP switch)	1.2 s / 12 s / 120 s / 12 minutes
Fine adjustment range (rotary knob)	$t_{min} \dots t_{max}$, 1 ... 12
Time range tolerance	t_{min} : -25 % ... +5 % / t_{max} : -5 % ... +25 %
Repetition accuracy	± 1 %
Min. start impulse on A1	≥ 150 ms
Reset time	≥ 100 ms
Voltage failure buffering	5 ... 10 ms

Contacts

Type	1 CO, micro disconnection
Material	Gold flash over silver alloy
Rated operational current	5 A
Max. switching voltage AC-1	250 V
Max. switching voltage DC-1	125 V
Max. AC load AC-1 (Fig.1)	1250 VA
Max. DC load 30 V / 125 V (Fig.2)	150 W / 25 W

Control input (UC = AC / DC)

	UC 24 - 60 V	UC 110 - 240 V
Nominal voltage (A1)	20 ... 75	88 ... 265
Operating voltage range [V]	20 ... 75	88 ... 265
Input current [mA]	3 ... 15	2 ... 5
Inrush current (100 ms) [mA]	150	50
Frequency [Hz]	50	50
Threshold voltage AC / DC [V]	≥ 14 / ≥ 18	≥ 65 / ≥ 85

Insulation

Test voltage open contact	1 kVrms 1 minute
Test voltage between contacts and control input	2 kVrms 1 minute

General Specifications

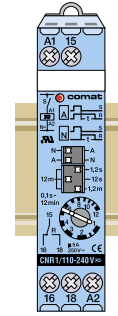
Ambient temperature storage / operation	-40 ... 85 °C / -25 ... 60 °C
Mechanical life of contacts	> 50 x 10 ⁶ operations
Ingress protection degree	IP 20
Housing material / Weight	Lexan / 60 g

Standard types

UC (AC/DC) 50 Hz	CNR1/UC24-60V R CNR1/UC110-240V R
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Accessories

Label plate: (replacement)	BZS-DIN 17.5
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Connection diagram

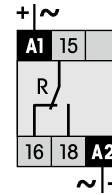


Fig.1 Contact endurance

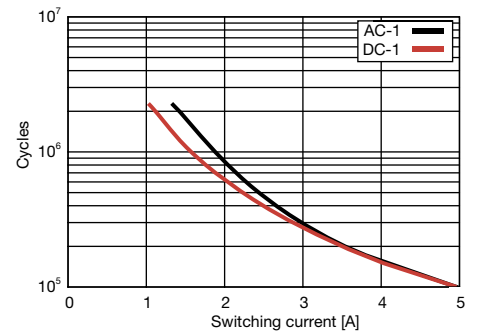
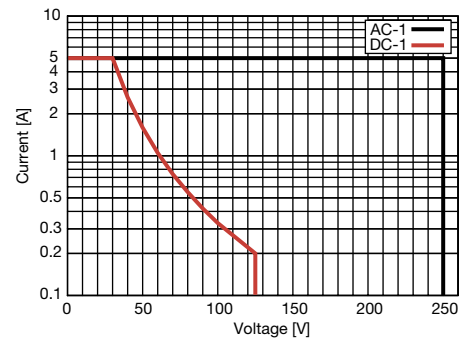
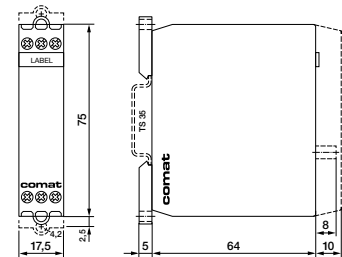


Fig. 2 Load limit curve



Dimensions [mm]



Technical approvals, conformities

