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)

A N-1
  A1

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 ... 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)
- Nominal voltage (A1)
  - UC 24 - 60 V
  - UC 110 - 240 V
- 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 10⁶ 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

Accessories
- Label plate: (replacement)
  - BZS-DIN 17.5