CRV3

**Time relay with 2 time elapses, mechanical changeover output contact**

2 time functions, 2 x 50 ms ... 60 h

**DIN Rail mounting according to DIN 43 880**

**Type:** CRV3/... V R

Time relay with 7 time ranges, 1 changeover contact, UC 24 V, AC 230 V operating voltages, 2 time functions, 2 x 50 ms ... 60 h, LED state indicator for output and control input

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**Maximum contact load**

6 A / 250 V AC-1 180 W DC-1

**Recommended minimum contact load**

10 mA / 10 V

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

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**Time data**

- 7 partial time ranges, $t_{\text{max}}$ (rotary switch)
- 0.6, 6, 60 s / 6, 60 min / 6, 60 h
- Fine adjustment range (rotary knob)
- $t_{\text{min}}$ … $t_{\text{max}}$, 5 … 60
- Time range tolerance
- $t_{\text{min}}$: -30 % … +0 % / $t_{\text{max}}$: -0 % … +30 %
- Repetition accuracy
- ± 0.3 % or DC: 15 ms / AC: 25 ms
- Response time, power on, on A1
- ≤ 100 ms
- Min. trigger pulse on B1
- 35 ms (AC / DC)
- Reset time B1 (AC/DC)
- ≤ 60 ms
- Voltage failure buffering
- ≥ 20 ms

**Contacts**

- Type: 1 CO, micro disconnection
- Material: AgNi
- Rated operational current: 6 A
- Max. inrush current (10 ms): 30 A
- Max. switching voltage AC-1: 250 V
- Max. AC load AC-1 (Fig.1): 1500 VA
- Max. DC load DC-1, 30 V / 250 V (Fig.2): 180 W / 75 W

**Power supply and control input**

- Nominal voltage: UC 24 V, AC 230 V
- Operating voltage range: 19 … 27.6 V, 195 … 265 V
- Power consumption
  - ≤ 1.2 W
  - ≤ 1.4 W
- Frequency range
  - 50 / 60 Hz
  - 50 / 60 Hz
- Inrush current A1
  - 2 A, $\tau = 50 \mu s$
- Input current into B1 typ.
  - 5.8 mA
  - 3.6 mA
- Allowed residual current into B1
  - ≤ 2 mA
  - ≤ 1 mA
- Trigger threshold voltage on B1, AC / DC
  - 12 V / 15 V
  - 100 V
- Test voltage open contact: 1 kVrms 1 minute
- Test voltage between contacts and control input: 2 kVrms 1 minute

**Insulation**

- Ambient temperature storage /operation: -40 … 80 °C / -25 … 55 °C
- Mechanical life of contacts: 30 x 10⁶ operations
- Conductor cross section: Stranded wire 2.5 mm², 2 x 1 mm²
- Ingress Protection degree: Housing: IP 40, terminals: IP 20
- Max. Screw torque: 0.4 Nm
- Housing material / Weight
  - Lexan / 60 g

**General Specifications**

- Standard types
  - UC, 50 / 60 Hz
    - CRV3/UC24V R
  - AC, 50 / 60 Hz
    - CRV3/AC230V R

**Accessories**

- Marking strip:
  - Large: BS-13G
  - Small: BS-13K

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This issue replaces all previous issues. Availability, errors and specifications subject to change without notice.