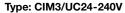
# CIM3, CIM3R (Railway)

Time relay with mechanical changeover output contact 6 time functions and service function, 7 time ranges from 50 ms...60 h, DIN Rail mounting according to DIN 43 880





Sophisticated multifunction time relay, 1 changeover power contact switching in zero crossing (50/60 Hz), 6 time functions and service function ON/OFF, 7 time ranges from 50 ms to 60 h, multifunction LED state indicator, suitable for any time-control application, light-switch neon lamp current absorption on input B1, manual switching function for maintenance, emergency, etc., 16.6 Hz power supply applications. Railway version available.

Maximum contact load Recommended minimum contact load

16 A / 250 V AC-1 384 W DC-1 10 mA / 10 V

Time functions and related connection diagrams (Function diagrams: refer to page 152)

The functions are selectable by rotary switch





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LED	Relay	Time run
OFF	OFF	NO
Continuous ON	ON	NO
Short blinking	OFF	YES
Long blinking	ON	YES

## Time data

7 partial time ranges, t<sub>max</sub> (rotary switch) Fine adjustment range (rotary knob)

Time range tolerance Repetition accuracy

Response time, power on, on A1 Min. trigger pulse on B1 Reset time B1 (AC/DC)

Voltage failure buffering (50 / 60 Hz)

0.6, 6, 60 s / 6, 60 min / 6, 60 h

 $t_{min}\,\ldots\,t_{max},\,0.5\,\ldots\,6$ 

 $t_{min}$ : -5 % ... +0 % /  $t_{max}$ : -0 % ... +5 %

 $\pm$  0.1 % or DC: 2 ms / AC: 10 ms

< 45 ms 20 ms (AC / DC)  $\leq 30 \text{ ms}$ 

≥ 20 ms

## Contacts

Material CIM3 / CIM3R / Type

Rated operational current at 40 °C / 60 °C

Max. inrush current

Max. switching voltage AC-1 Max. AC load AC-1 (Fig.1)

Max. DC load DC-1 30 V / 250 V (Fig.2)

AgNi / 1 CO, micro disconnection

16 A / 13 A

30 A 250 V

4 kVA

240 W / 85 W

# Power supply- and control input

Nominal voltage (A1, B1)

Operating voltage range Power consumption

Frequency range

Insulation

Allowed DC residual current into B1 AC Neon lamp residual current into B1

Trigger threshold voltage on B1, AC / DC

UC 24-240 V (UC = AC / DC)

UC 19 ... 250 V approx. 1 W 15 ... 60 Hz

 $\leq 0.5 \text{ mA}$  $\leq$  10 mA

15 / 17 V

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

2.5 kVrms 1 minute

30 x 10<sup>6</sup> operations

### **General Specifications**

Ambient temperature storage /operation

Mechanical life of contact Conductor cross section Ingress protection degree

Max. Screw torque

Stranded wire 2.5 mm<sup>2</sup>, 2 x 1.5 mm<sup>2</sup>

-40 ... 85 °C / -40 ... 60 °C (Railway: -46 °C)

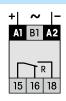
0.4 Nm Housing material / weight Lexan / 70 g

## Standard types

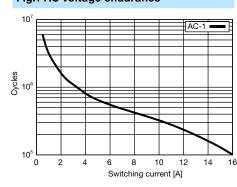
UC (AC/DC) 15...60 Hz Railway

CIM3/UC24-240V CIM3R/UC24-240V

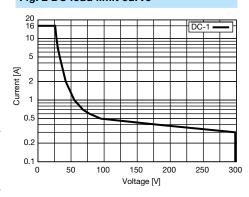
### Connection diagram



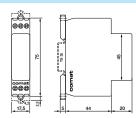
## Fig.1 AC voltage endurance



# Fig. 2 DC load limit curve



# Dimensions [mm]



Technical approvals, conformities

EN 50155, EN 60730

