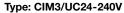
# CIM3, CIM3R (Railway)

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.

16 A / 250 V AC-1 384 W DC-1 Maximum contact load Recommended minimum contact load 10 mA / 10 V

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

The functions are selectable by rotary switch





LED	functi	on 1	tabl	e:

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)

Power supply- and control input

AgNi / 1 CO, micro disconnection 16 A / 13 A

30 A 250 V 4 kVA 240 W / 85 W

UC 24-240 V (UC = AC / DC) Nominal voltage (A1, B1) Operating voltage range UC 19 ... 250 V Power consumption approx. 1 W Frequency range 15 ... 60 Hz Allowed DC residual current into B1  $\leq 0.5 \text{ mA}$ AC Neon lamp residual current into B1  $\leq 10 \text{ mA}$ Trigger threshold voltage on B1, AC / DC 15 / 17 V

## Insulation

Test voltage open contact 1 kVrms 1 minute Test voltage between contacts and control input 2.5 kVrms 1 minute

### **General Specifications**

Ambient temperature storage /operation -40 ... 85 °C / -40 ...60 °C (Railway: -46 °C)

Mechanical life of contact 30 x 10<sup>6</sup> operations

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

Ingress protection degree IP 20 0.4 Nm Max. Screw torque 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

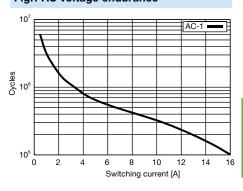
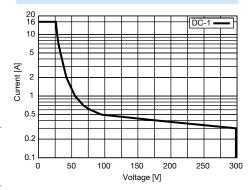
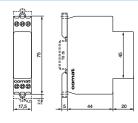


Fig. 2 DC load limit curve



# **Dimensions [mm]**



Technical approvals, conformities

EN 50155, EN 60730

