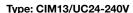
CIM13, CIM13R (Railway)

Time relay with DC solid-state output 8 time functions and stepping function, ON-OFF switch, 50 ms ... 60 h DIN Rail mounting according to DIN 43 880

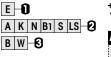


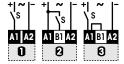
Sophisticated multifunction time relay, 1 transistor output, 8 time functions, stepping function and service function ON/OFF, time ranges from 50 ms ... 60 h, multifunction LED state indicator, suitable for any time-control application and also staircase-light control, light-switch neon lamp current absorption on input B1, manual switching function for maintenance, emergency, etc., 16.6 Hz applications. Railway version available.

Maximum contact load 4 A / 30 V Recommended minimum contact load 1 mA

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

The functions are selectable by rotary switch





LED function table

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_{max} (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)

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) ≤ 30 ms

≥ 20 ms

Voltage failure buffering (50 / 60 Hz)

Output

MOS FET Type Rated operational current (Fig. 1) 4 A 40 A Max. inrush current (10 µs) 30 V Max. switching voltage Leakage current $< 10 \, \mu A$

Power supply- and control input

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

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 between output and control input 2.5 kVrms 1 minute

General Specifications

Ambient temperature storage /operation

Conductor cross section

Ingress protection degree IP 20 Max. Screw torque 0.4 Nm Housing material / Weight Lexan / 70 g

Standard types

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

Railway

CIM13/UC24-240V CIM13R/UC24-240V

-40 ... 85 °C / -40 ...60 °C (Railway: -70 °C)

Stranded wire 2.5 mm², 2 x 1.5 mm²







Connection diagram

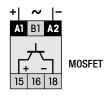
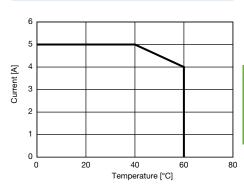
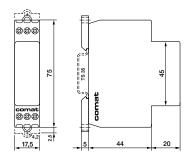


Fig. 1 Output derating curve



Dimensions [mm]



Technical approvals, conformities

EN 50155; EN 60730



