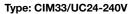
CIM33, CIM33R (Railway)

Time relay with DC solid-state output

6 time functions and service function, 7 time ranges from 50 ms...60 h, DIN Rail mounting according to DIN 43 880



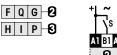
Sophisticated multifunction time relay, 1 transistor output, 6 time functions and service function ON/OFF, 7 time ranges from 50 ms ... 60 h, Multifunction LED state indicator, suitable for any time-control application, light-switch neon lamp current absorption on input B1, manual switching function for maintenance emergency, etc., 16.6 Hz 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	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)

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

Output

Type MOS FET Rated operational current (Fig. 1) 4 A Max. inrush current (10 μ s) 40 A Max. switching voltage 30 V Leakage current < 10 μ A

Power supply- and control input

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

 $\begin{array}{lll} \mbox{Operating voltage range} & \mbox{UC 19 ... 250 V} \\ \mbox{Power consumption} & \mbox{approx. 1 W} \\ \mbox{Frequency range} & \mbox{15 ... 60 Hz} \\ \mbox{Allowed DC residual current into B1} & \leq 0.5 \mbox{ mA} \\ \mbox{AC Neon lamp residual current into B1} & \leq 10 \mbox{ mA} \\ \mbox{Trigger threshold voltage on B1, AC / DC} & \mbox{15 / 17 V} \\ \end{array}$

Insulation

Test voltage between output and control input 2.5 kVrms 1 minute

General Specifications

Ambient temperature storage / operation $-40 \dots 85 \,^{\circ}\text{C}$ / $-40 \dots 60 \,^{\circ}\text{C}$ (Railway: -70 $^{\circ}\text{C}$) Conductor cross section Stranded wire 2.5 mm², 2 x 1.5 mm²

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 CIM33/UC24-240V CIM33R/UC24-240V







Connection diagram

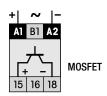
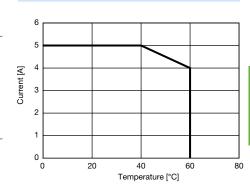
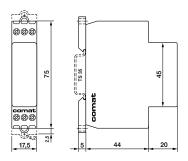


Fig. 1 Output derating curve



Dimensions [mm]



Technical approvals, conformities

EN 50155; EN 60730



