

C85

Time relay and repeat cycle timer with 2 time lapses 50 ms ... 60 h, mechanical change over output contact, 6 time functions + test function "ON"

Type: C85/UC24-240 V R

Plug-in multifunction time relay / repeat cycle timer, 1 change over power contact, 6 time functions, time ranges: 2 x 50 ms ... 60 h, 3 LED's for full state indication: Control input, time run and output, **Seismic qualification** available (precondition **for use in nuclear power plants**)

Maximum contact load 8 A / 250 V AC-1 240 W DC-1

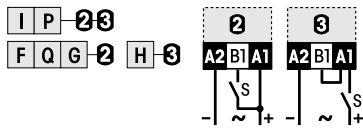
Recommended minimum contact load 10 mA / 10 V

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

The functions are selectable by rotary switch

LED function table:

Function circuit	State	LED function
Output, yellow LED	active	continuous ON
	passive	OFF
Time run, red LED	active	t1: Double blinking t2: Blinking
	passive	OFF
B1 input, yellow LED	active	continuous ON
	passive	OFF



Time data for each time t1 / t2

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

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

$t_{min} \dots t_{max}$ 0.5 ... 6

t_{min} : -30 % ... +0 % / t_{max} : -0 % ... +25 %

± 0.1 % or DC: 5 ms / AC: 25 ms

≤ 40 ms

30 ms

≤ 50 ms

≥ 15 ms

Contacts

Type 1CO, Single contact micro disconnection

Material AgNi

Rated operational current 8 A

Max. inrush current (10 ms) 30 A

Max. switching voltage AC-1 250 V

Max. AC load AC-1 (Fig.1) 2000 VA

Max. DC load DC-1 30 V / 250 V (Fig.2) 240 W / 75 W

Power supply and control input (UC = AC / DC)

Nominal voltage (A1, B1)

Operating voltage range [V]

Power consumption [W]

Frequency range [Hz]

Allowed residual current into B1 [mA]

Trigger threshold voltage on B1, AC / DC [V]

UC 24 – 240 V

20 ... 265, 60 Hz: ... 200 V

≤ 1.8

45 ... 63

AC: ≤ 0.8; DC: ≤ 1

$V_{th} = V_{supp} \times m + b$; $m = 0,35$; $b = 7,5$ V

Insulation

Test voltage open contact 1 kVrms 1 minute

Test voltage between contacts and control input 2 kVrms 1 minute

General Specifications

Ambient temperature storage /operation

Mechanical life of contact

Expected life @ 25 °C (except contact)

Ingress protection degree

Housing material / Weight

-40 ... 85 °C / -25 ... 60 °C

30 x 10⁶ operations

>> 50 000 h

IP 40 when plugged in

Lexan / approx. 60 g

Standard types

UC (AC/DC) 45...63 Hz

Seismic qualification:

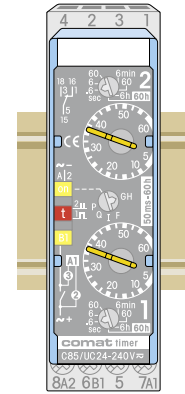
C85/UC24-240V R

C85.C2292/UC24-240V R

Accessories: Socket:

S7-C

comat
RELECO
by **comat**



Connection diagram

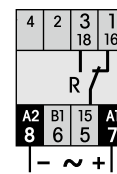


Fig.1 AC electrical endurance

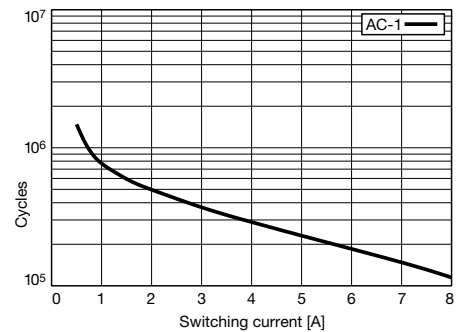
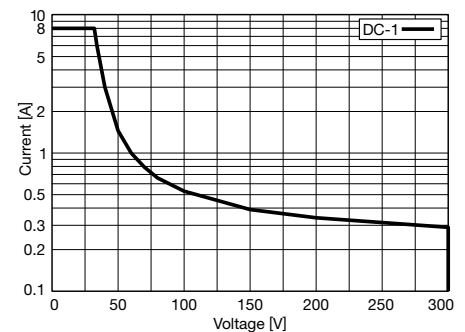
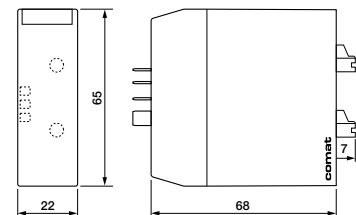


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

Available:
Seismic IEEE 323, IEEE 344

EN 60947

