

Multifunction time relay with mechanical change over output contact
12 time functions + test function "ON", 50 ms ... 60 h

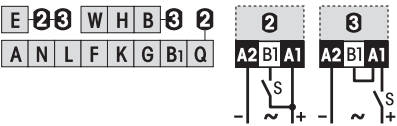


Type: C83/UC24-240V R

Plug-in multifunction time relay, 1 change over power contact, 12 time functions, time ranges: 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 114)
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	
7 partial time ranges, t _{max} (rotary switch)	0.6, 6, 60 s / 6, 60 min / 6, 60 h
Fine adjustment range (rotary knob)	t _{min} ... t _{max} , 0.5 ... 6
Time range tolerance	t _{min} : -30 % ... +0 % / t _{max} : -0 % ... +25 %
Repetition accuracy	± 0.1 % or DC: 5 ms / AC: 25 ms
Response time, power on, on A1	≤ 40 ms
Min. trigger pulse on B1	30 ms
Reset time B1 (AC/DC)	≤ 50 ms
Power failure security (50 / 60 Hz)	≥ 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

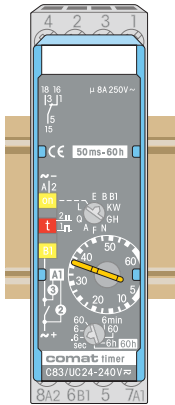
Power supply and control input (UC = AC / DC)	
Nominal voltage (A1, B1)	UC 24 – 240 V
Operating voltage range [V]	20 ... 265, 60 Hz: ... 200 V
Power consumption [W]	≤ 1.8
Frequency range [Hz]	45 ... 63
Allowed residual current into B1 [mA]	AC: ≤ 0.8; DC: ≤ 1
Trigger threshold voltage on B1, AC / DC [V]	V _{threshold} = V _{supp} x m + b; m = 0,35; b = 7,5

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	-40 ... 85 °C / -25 ...60 °C
Mechanical life of contact	30 x 10 ⁶ operations
Expected life @ 25 °C (except contact)	>> 50 000 h
Ingress protection degree	IP 40 when plugged in
Housing material / Weight	Lexan / approx. 60 g

Standard types	
UC (AC/DC) 45...63 Hz	C83/UC24-240V R
Seismic qualification:	C83.C2292/UC24-240V R

Accessories: Socket:	S7-C
----------------------	------



Connection diagram

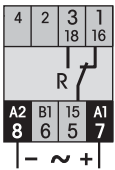


Fig.1 AC electrical endurance

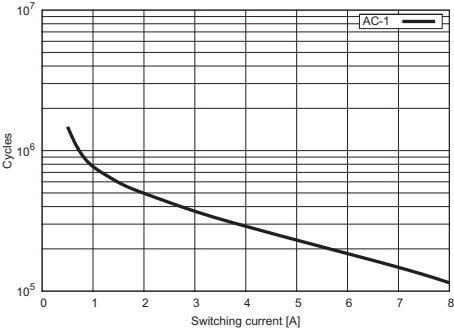
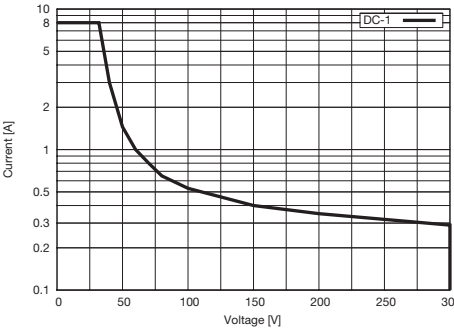
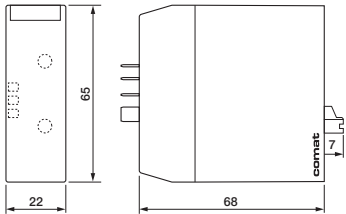


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

Available:
Seismic IEEE 323, IEEE 344

EN 60947

