

C84

Time relay, running time without auxiliary voltage, with mechanical NO, NC output contacts, 2 time functions, 0,1 s ... 20 min

Type: C84/... V R

Plug-in time relay

1 normally open + 1 normally closed contact, 250 V

UC 24 V, UC 110 ... 240 V operation voltages

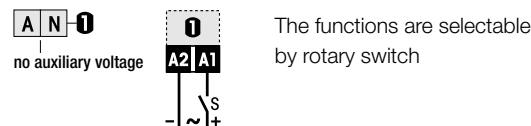
2 time functions, time ranges: 0.1 s ... 20 minutes

LED for supply voltage state indication

Seismic qualification available (precondition for use in nuclear power plants)

Maximum contact load	5 A / 250 V AC-1 5 A / 30 V DC-1
Recommended minimum contact load	1 mA / 0.1 V

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



Time data

4 partial time ranges, t_{max} (rotary switch)	1.2 s / 12 s / 120 s / 20 minutes
Fine adjustment range (rotary knob)	$t_{min} \dots t_{max}$, 1 ... 12
Time range tolerance	t_{min} : -25 % ... +5 % / t_{max} : -5 % ... +25 %
Repetition accuracy	± 1 %
Min. start impulse on A1	≥ 150 ms
Reset time	≥ 100 ms
Voltage failure buffering	5 ... 10 ms

Contacts

Type	1 NO, 1 NC, micro disconnection
Material	Gold flash over silver alloy
Rated operational current	5 A
Max. switching voltage AC-1	250 V
Max. switching voltage DC-1	125 V
Max. AC load (Fig.1) AC-1	1250 VA
Max. DC load 30 V / 125 V (Fig.2)	150 W / 25 W

Control input (UC = AC / DC)

	UC 24 ... 48 V	UC 110 ... 240 V
Nominal voltage (A1)	20 ... 60	88 ... 265
Operating voltage range [V]	20 ... 60	88 ... 265
Input current [mA]	3 ... 10	1 ... 5
Inrush current (100 ms) [mA]	200	100
Frequency range [Hz]	45 ... 63	45 ... 63
Threshold voltage AC / DC [V]	≥ 12 / ≥ 16	≥ 55 / ≥ 75

Insulation

Test voltage open contact	1 kVrms 1 minute
Test voltage between poles	2 kVrms 1 minute
Test voltage between contacts and control input	2.5 kVrms 1 minute

General Specifications

Ambient temperature storage /operation	-40 ... 85 °C / -25 ... 60 °C
Mechanical life of contacts	≥ 50 x 10 ⁶ operations
Ingress protection degree	IP 40 when plugged in
Housing material / Weight	Lexan / 50 g

Standard types

UC (AC/DC) 45...63 Hz, 24-48, 110-240

Seismic qualification:

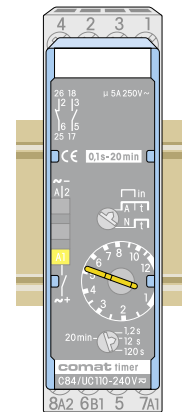
C84/UC...V R

C84.C2292/...V R

" ..." enter the voltage for full type designation

Accessories

Socket: **S7-C**



Connection diagram

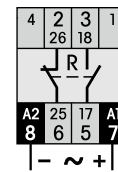


Fig.1 Contact endurance

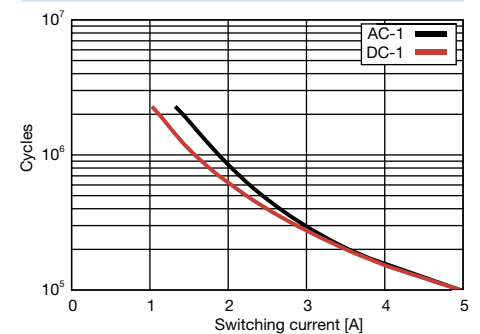
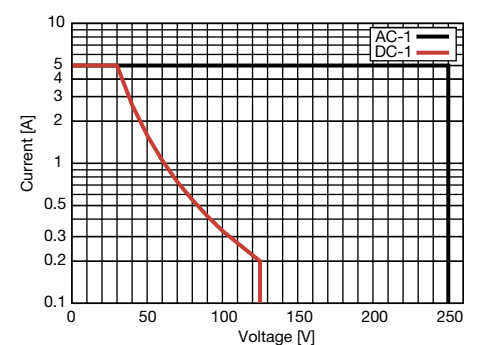
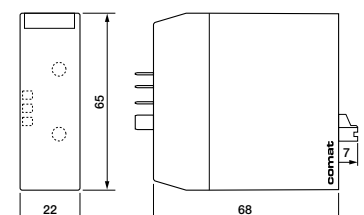


Fig. 2 Load limit curve



Dimensions [mm]



Technical approvals, conformities

Available:
Seismic IEEE 323, IEEE 344

EN 60947

