

CRV3

Time relay with 2 time elapses, mechanical changeover output contact 2 time functions, 2 x 50 ms ... 60 h DIN Rail mounting according to DIN 43 880

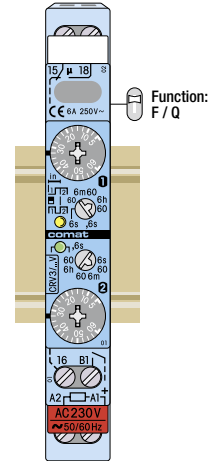
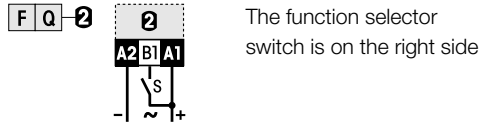


Type: CRV3/... V R

Time relay with 7 time ranges, 1 changeover contact, UC 24 V, AC 230 V operating voltages, 2 time functions, 2 x 50 ms ... 60 h, LED state indicator for output and control input

Maximum contact load	6 A / 250 V AC-1 180 W DC-1
Recommended minimum contact load	10 mA / 10 V

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



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)	$t_{min} \dots t_{max}$, 5 ... 60
Time range tolerance	t_{min} : -30 % ... +0 % / t_{max} : -0 % ... +30 %
Repetition accuracy	± 0.3 % or DC: 15 ms / AC: 25 ms
Response time, power on, on A1	≤ 100 ms
Min. trigger pulse on B1	35 ms (AC / DC)
Reset time B1 (AC/DC)	≤ 60 ms
Voltage failure buffering	≥ 20 ms

Contacts

Type	1 CO, micro disconnection
Material	AgNi
Rated operational current	6 A
Max. inrush current (10 ms)	30 A
Max. switching voltage AC-1	250 V
Max. AC load AC-1 (Fig.1)	1500 VA
Max. DC load DC-1, 30 V / 250 V (Fig.2)	180 W / 75 W

Power supply and control input

	UC 24 V	AC 230 V
Nominal voltage	19 ... 27.6 V	195 ... 265 V
Operating voltage range	≤ 1.2 W	≤ 1.4 W
Power consumption	50 / 60 Hz	50 / 60 Hz
Frequency range	-	2 A, $\tau = 50 \mu s$
Inrush current A1	5.8 mA	3.6 mA
Input current into B1 typ.	≤ 2 mA	≤ 1 mA
Allowed residual current into B1	12 V / 15 V	100 V
Trigger threshold voltage on B1, AC / DC		

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 ... 80 °C / -25 ... 55 °C
Mechanical life of contacts	30 x 10 ⁶ operations
Conductor cross section	Stranded wire 2.5 mm ² , 2 x 1 mm ²
Ingress Protection degree	Housing: IP 40, terminals: IP 20
Max. Screw torque	0.4 Nm
Housing material / Weight	Lexan / 60 g

Standard types

UC, 50 / 60 Hz	CRV3/UC24V R
AC, 50 / 60 Hz	CRV3/AC230V R

Accessories

Marking strip:	Large	BS-13G
	Small	BS-13K

Connection diagram

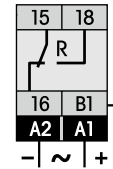


Fig.1 AC electrical endurance

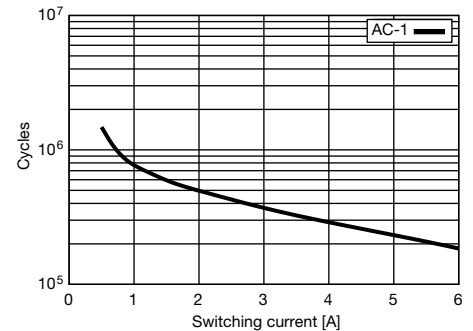
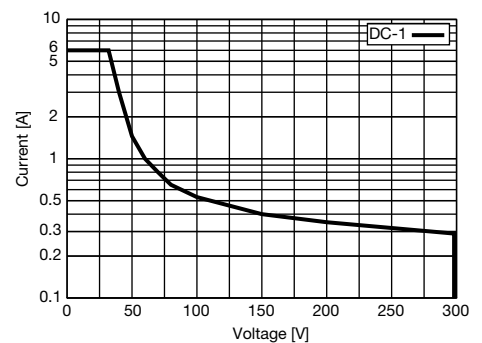
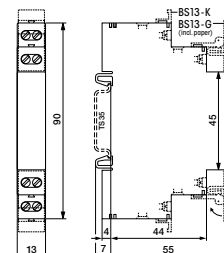


Fig. 2 DC load limit curve



Dimensions [mm]



Technical approvals, conformities

