

# CRS1C

**Stepping relay with 1-pole change over power contact**  
**DIN Rail mounting according to DIN 43 880**



**Type: CRS1C/...V R**

Stepping relay (bistable, mech. latching)  
 1 change over contact with 0.5 mm gap

**Maximum contact load** 6 A / 250 V, 180 W DC-1  
**Recommended minimum contact load** 0.1 A / 10 V

**Contacts**

Type	Single contact micro disconnection
Material	AgNi 10 + 0.2 µm Au
Rated operational current	
AC-1, AC-5a, AC-5b, AC-7a, AC-7b	6 A
Max. inrush current (20ms)	15 A
Max. switching voltage AC-1	250 V
Max. AC load (Fig. 1) AC-1	1500 VA
Max. DC load (Fig. 2) DC-1	180 W

**Control input V<sub>n</sub> =**

	<b>AC 230 V 50 Hz</b>	<b>DC 24 V</b>
Operating voltage range	185 ... 255 V	19 ... 27 V
Max. pulse voltage	253 V * (t <sub>on</sub> /t <sub>p</sub> ) <sup>0.5</sup>	26.4 V * (t <sub>on</sub> /t <sub>p</sub> ) <sup>0.5</sup>
Op. voltage @100% duty cycle, 60 °C ambient temp., 6 A contact load	≤ 245 V	≤ 25.5 V
Nominal power consumption	1.4 VA	1 W
		With free wheeling diode

**Coil Table**

VAC	Ω ±10%	mA	VDC	Ω ±10%	mA
230	25	60 mA	24	575	42

**Insulation**

Test voltage open contact	1 kVrms 1 minute
Test voltage between contacts and coil	4 kVrms 1 minute

**General Specifications**

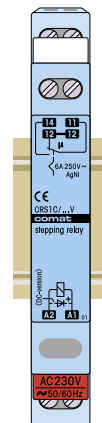
Ambient temperature storage/operation	-40 ... +85 °C / -25 ... +60 °C
Min. drive pulse width	50 ms
Mechanical life, DC drive / AC drive	≥ 10 <sup>7</sup> / ≥ 10 <sup>5</sup> operations
Electrical life 250 V, AC-1	≥ 10 <sup>5</sup> operations
Ingress Protection degree	Housing: IP 40, terminals: IP 20
Max. Screw torque	0.4 Nm
Housing material	Lexan
Weight	47 g

**Standard types**

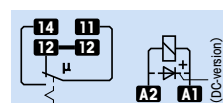
<b>AC 230 V, 50Hz/60Hz:</b>	<b>CRS1C/AC230V R</b>
<b>DC 24 V:</b>	<b>CRS1C/DC24V R</b>

**Accessories**

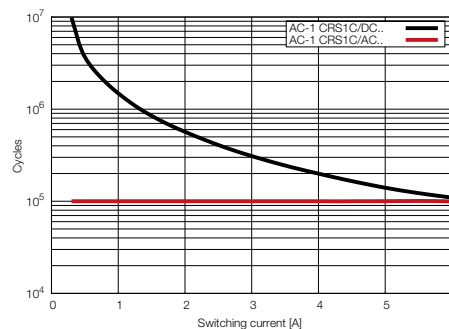
Marking Strip:	
Large	<b>BS-13G</b>
Small	<b>BS-13K</b>



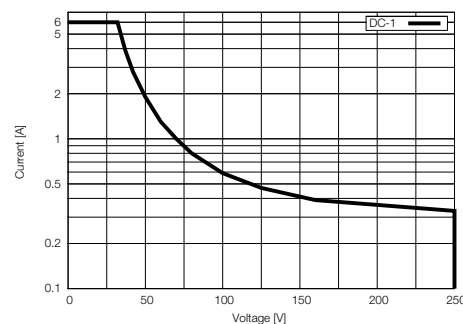
**Connection diagram**



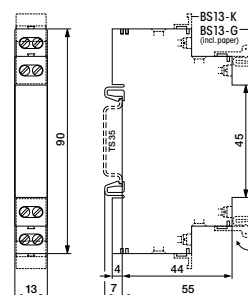
**Fig.1 AC voltage endurance**



**Fig. 2 DC load limit curve**



**Dimensions [mm]**



**Technical approvals, conformities**

IEC 61810; EN 60947

