

**CR33A**

**3 channels control relay with normally open double contacts**  
**DIN Rail mounting according to DIN 43 880**

**Type: CR33A/DC24V R**

3 channels control relay  
 3 NO double contacts on common line  
 LED status indicator for each channel  
 Sealed relays built in

**Maximum contact load** **3 A, 250 V AC-1, 3 A 30 V DC-1**  
**Recommended minimum contact load** **100 µA / 100 mV**

**Contacts**

Type double contact micro disconnection  
 Material Silver alloy gold plated  
 Max. operational current 3 A  
 Max. switching voltage AC-1 250 V  
 Max. AC load AC-1 750 VA  
 Max. DC load (Fig. 2) DC-1 150 V 0.24 A, 90 W

Remark: For preserving the gold plating do not exceed 30 V / 0.1 A resistive load.

**Control input V<sub>N</sub>** **DC 24 V**  
 Operating voltage range 18 ... 29 V  
 Input current per channel @ V<sub>N</sub> 8 ... 10 mA  
 Release voltage 2.4 V  
 Nominal power consumption per channel 250 mW  
 Inductive turn-off voltage damped, 30 Vp

**Insulation**

Test voltage open contact 0.75 kVrms 1 minute  
 Test voltage between contacts and coil 2 kVrms 1 minute

**General Specifications**

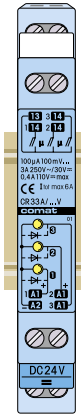
Ambient temperature storage/operation -40 ... +85 °C / -25 ... +60 °C  
 Response time ≤ 6 ms  
 Release time ≤ 4 ms  
 Service life, mech./elec. ≥ 2 x 10<sup>7</sup> / ≥ 10<sup>5</sup> operations (Fig. 1)  
 Ingress protection degree Housing: IP 40, terminals: IP 20  
 contacts: IP 67  
 Max. Screw torque 0.4 Nm  
 Housing material Lexan  
 Weight 52 g

**Standard types**

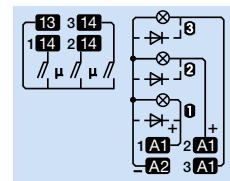
**DC 24 V:** **CR33A/DC24V R**

**Accessories**

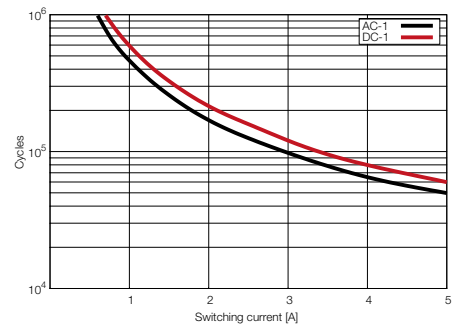
Marking Strip:  
 Large **BS-13G**  
 Small **BS-13K**



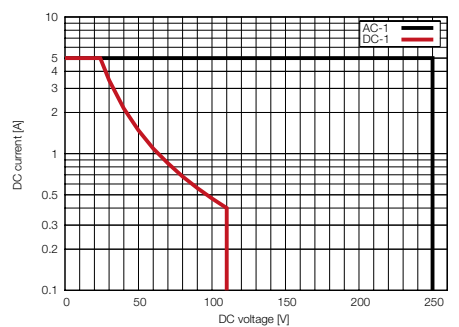
**Connection diagram**



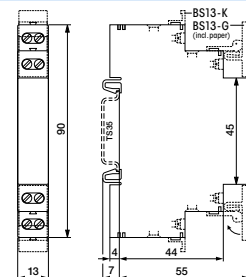
**Fig.1 Contact endurance**



**Fig. 2 Load limit curve**



**Dimensions [mm]**



**Technical approvals, conformities**



EN 60947-4-1  
 EN 60947-5-1