DIN Relay 13 mm interface series
CR16CX

Power relay with 1-pole change over contact
DIN Rail mounting according to DIN 43 880

Type: CR16CX/V R

Power relay
1 change over contact
control voltage DC 24 V and AC 230 V / 50 Hz
LED status indicator
Wash tight relay built in

Maximum contact load
Recommended minimum contact load
6 A 250 V AC-1, 6 A 30 V DC-1
10 mA / 12 V

Contacts
Type
Single contact micro disconnection
Material
AgNi
Rated operational current
6 A
Max. inrush current (20ms)
15 A
Max. switching voltage AC-1
250 V
Max. AC load AC-1
1500 VA
Max. DC load 24V/220V (Fig. 2)
180 W

Control input Vn =
DC 24 V
Operating voltage range
18 ... 27 V
Input current @ Vn
12 ... 15 mA
Starting current
—
Release voltage
2.4 V
Nominal power consumption
330 mW
Inductive turn-off voltage
damped, 57 Vp

AC 230
Operating voltage range
190 ... 255 V
Input current @ Vn
12 ... 16 mA
Starting current
≤ 0.65 A / 0.1 ms
Release voltage
33 V
Nominal power consumption
330 mW
Inductive turn-off voltage
suppressed

Insulation
Test voltage open contact
1 kVrms
Test voltage between contacts and coil
2.5 kVrms 1 minute

General Specifications
Ambient temperature storage / operation
-40 ... +85 °C / -25 ... +60 °C
Response time AC / DC
10 ms / 6 ms
Release time AC / DC
8 ... 20 ms / 10 ... 15 ms
Bounce time NO contact
2.5 ms
Operating frequency at nominal load
≤ 400 operations / h
Service life, mech./elec.
≥ 30 x 10⁶ / ≥ 1.5 x 10⁵ operations (Fig. 1)
Ingress protection degree
Housing: IP 40, terminals: IP 20
Contact: IP67
Max. Screw torque
0.4 Nm
Housing material
Lexan
Weight
50 g

Standard types
AC 230 V 50 Hz:
CR16CX/AC230V R
DC 24 V:
CR16CX/DC24V R

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

Connection diagram

Fig. 1 AC voltage endurance 250 V

Fig. 2 DC load limit curve

Dimensions [mm]

Technical approvals, conformities