DIN Relay 13 mm interface series

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 Vn =
Operating voltage range
Max. pulse voltage
Op. voltage @100% duty cycle, 60 °C
ambient temp., 6 A contact load ≤ 245 V
Nominal power consumption 1.4 VA

Coil Table

<table>
<thead>
<tr>
<th>VAC</th>
<th>VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ω ± 10% mA</td>
<td>Ω ± 10% mA</td>
</tr>
<tr>
<td>230</td>
<td>24</td>
</tr>
<tr>
<td>25000</td>
<td>575</td>
</tr>
<tr>
<td>60 mA</td>
<td>42</td>
</tr>
</tbody>
</table>

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 ≥ 10^7 / ≥ 10^6 operations
Electrical life 250 V, AC-1 ≥ 10^5 operations
Ingress Protection degree Housing: IP 40, terminals: IP 20
Max. Screw torque 0.4 Nm
Housing material Lexan
Weight 47 g

Standard types
AC 230 V, 50Hz/60Hz: CRS1C/AC230V R
DC 24 V: CRS1C/DC24V R

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

IEC 61810; EN 60947

This issue replaces all previous issues. Availability, errors and specifications subject to change without notice.