QRC series
C9-E2x
8-pin, miniature relay, 2-pole, plug-in, faston

Type
C9-E2x/ ... V
Sensitive relay, 500 mW
2 change-over contacts

DC operating range
0.8 ... 1.7 x U_n
Maximum contact load
5 A/250 V AC1 5 A/30 V DC1
Recommended minimum contact load
10 mA/10 V Code 1
5 mA/5 V Code 2

Contacts
Material Standard Code 1 AgNi + 0.2 µ Au
Optional, Code 2 AgNi + 10 µ Au
Rated current
5 A
Switch-on current max. (20 ms)
15 A
Switching voltage max.
250 V
AC load (Fig 1)
1200 VA
DC load
see fig. 2

Coil
Coil resistance
see table; tolerance ± 10 %
Pick-up voltage
≤ 0.8 x U_n
Release voltage
≥ 0.1 x U_n
Nominal power
0.8 VA (AC)/0.5 W (DC)

Coil table
<table>
<thead>
<tr>
<th>VAC</th>
<th>Ω</th>
<th>mA</th>
<th>VDC</th>
<th>Ω</th>
<th>mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>238</td>
<td>33</td>
<td>12</td>
<td>288</td>
<td>42</td>
</tr>
<tr>
<td>48</td>
<td>1K</td>
<td>17</td>
<td>24</td>
<td>1K</td>
<td>21</td>
</tr>
<tr>
<td>115</td>
<td>5K</td>
<td>7</td>
<td>48</td>
<td>4K</td>
<td>10</td>
</tr>
<tr>
<td>230</td>
<td>2K</td>
<td>3.5</td>
<td>110</td>
<td>24K</td>
<td>4.5</td>
</tr>
</tbody>
</table>

Insulation
Volts rms, 1 min
Contact open
1000 V
Contact/contact
2.5 kV
Contact/coil
2.5 kV
Insulation resistance at 500 V
≥ 1 GΩ
Insulation, IEC 61810-1
2.5 kW/3

Specifications
Ambient temperature operation/storage
-40 (no ice) ... 60 °C / -40 ... 80 °C
Pick-up time/bounce time
10 ms/c 3 ms
Release time/bounce time
6 ms/s 1 ms
Mechanical life
AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load
≥ 10000 switching cycles
Switching frequency at rated load
≤ 1200/h
Protection class
IP40
Weight
40 g

Standard types
VAC 50 Hz/60 Hz: 24, 48, 115, 230 (240)
VDC 12, 24, 48, 110, 220
LED
Free wheeling diode
Polarity and free wheeling diode
AC/DC bridge rectifier 24 V, 48 V, 60 V

Accessories
Socket:
Optional accessories (blanking plug):
S9-M, S9-L, S9-P, S9-P0
S9-NP, S9-OP

Connection diagram

Fig. 1 AC voltage endurance

Fig. 2 DC load limit curve

Dimensions [mm]

Technical approvals, conformities

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