IRC series

C10-T1x

5-pin, Interface relays, 1-pole, twin contact, plug-in faston

Type C10-T1x/ ... V
Standard relay for low power application

Maximum contact load 6 A/250 V AC1 0,5 A/110 V DC1
6 A/30 V DC1 0,2 A/220 V DC1

Recommended minimum contact load 5 mA/5 V Code 3
1 mA/5 V Code 2

Contacts

Material Standard Code 3 AgNi + 3 µ Au
Optional Code 2 AgNi + 10 µ Au
Rated current 6 A
Switch-on current max. (20 ms) 15 A
Switching voltage max 250 V
AC load (Fig 1) 1,5 kVA
DC load see fig. 2

Coil

Coil resistance see table; tolerance ± 10 %
Pick-up voltage ≤ 0,8 x U₀
Release voltage ≥ 0,1 x U₀
Nominal power 1,1 VA (AC)/0,7 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>290</td>
<td>45</td>
<td>12</td>
<td>224</td>
<td>53</td>
</tr>
<tr>
<td>48</td>
<td>1200</td>
<td>23</td>
<td>24</td>
<td>742</td>
<td>32</td>
</tr>
<tr>
<td>115</td>
<td>7.300</td>
<td>9,5</td>
<td>48</td>
<td>3.500</td>
<td>13,7</td>
</tr>
<tr>
<td>230</td>
<td>28.800</td>
<td>4,7</td>
<td>110</td>
<td>19.900</td>
<td>5,5</td>
</tr>
</tbody>
</table>

Insulation

Voltage rms, 1 min
Contact open 1000 V
Contact/coil 5 kV
Insulation resistance at 500 V ≥ 1 GΩ
Insulation, IEC 61810-1 4 kV/3

Specifications

Ambient temperature operation/storage -40 (no ice)...70 °C /-40 ... 80 °C
Pick-up time/bounce time 10 ms/s ≥ 1 ms
Release time/bounce time 5 ms/s ≥ 3 ms
Mechanical life ops AC: 10 Mill./DC: 20 Mill.
DC voltage endurance at rated load ≥100000 switching cycles
Switching frequency at rated load 1200/h
Protection class IP40
Weight 21 g

Standard types

VAC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240)
LED
RC suppressor
VDC12, 24, 48, 110
LED
Polarity and free wheeling diode
AC/DC bridge rectifier 24 V, 48 V

"..." Enter the voltage for full type designation

Accessories

Socket: S10, S10-M, S10-P

Connection diagram

Gap: 3 1 4
0,5 mm

Fig. 1 AC voltage endurance

Fig. 2 DC load limit curve

Dimensions [mm]

Technical approvals, conformities

IEC 61810; EN 60947

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