MRC series
C3-T3x
11-pin standard relay, 3-pole, twin contact, plug-in according to IEC 67-I-18a

Type
C3-T3x/ ... V
Standard relays for low level
3 change-over twin contacts

Maximum contact load
Recommended minimum contact load
6 A/250 V AC 1 6 A/30 V DC 1
5 mA/5 V Code 1
1 mA/5 V Code 2

Contacts
Material
Standard Code 1 AgNi + 0,2 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)
1,2 kVA
DC load
see Fig. 2

Coil
Coil resistance
see table; tolerance ± 10 %
Pick-up voltage
≤ 0,8 x Un
Release voltage
≥ 0,1 x Un
Nominal power
2,2 VA (AC)/1,3 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>67</td>
<td>92</td>
<td>24</td>
<td>443</td>
<td>54</td>
</tr>
<tr>
<td>48</td>
<td>296</td>
<td>46</td>
<td>48</td>
<td>1K8</td>
<td>27</td>
</tr>
<tr>
<td>115</td>
<td>1K7</td>
<td>19</td>
<td>110</td>
<td>9K2</td>
<td>12</td>
</tr>
<tr>
<td>230</td>
<td>7K1</td>
<td>9,5</td>
<td>220</td>
<td>36K1</td>
<td>6</td>
</tr>
</tbody>
</table>

Insulation
Volt 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, EN 61810-1
2,5 kV/3

Specifications
Ambient temperature operation/storage
-40 (no ice)...60 °C /-40 ... 80 °C
Pick-up time/bounce time
16 ms/3 ms
Release time/bounce time
8 ms/1 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/ops/h
Protection class
IP40
Weight
90 g

Standard types
VAC 50 Hz/60 Hz: 24, 48, 115 (120), 230 (240)
LED C3-T31/AC ... V
RC Suppresor C3-T32/AC ... V
VDC 24, 48, 110, 220
LED C3-T31X/AC ... V
Free wheeling diode C3-T32X/AC ... V
Polariy and free wheeling diode C3-T31R/AC ... V
AC/DC bridge rectifier 24 V, 48 V, 60 V
C3-T32R/AC ... V
C3-T31DC ... V
C3-T31DX/DC ... V
C3-T31FX/DC ... V
C3-T31BX/UC ... V
C3-T32DC ... V
C3-T32DX/DC ... V
C3-T32FX/DC ... V
C3-T32BX/UC ... V

Accessories
Socket: S3-B, S3-S, S3-L, S3-P, S3-P0, S3-MP, S3-MS
Optional accessories (blanking plug): SO-NP, SO-OP

Connection diagram

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.