Signal PCB Relay TSC

- 1 pole, 1A, 1 form C (CO)
- 2.54mm terminal pitch same as I.C. socket terminal pitch

Typical applications
Telecommunications, office machine

**Approvals**
UL E2292, CSA LR48471-189
Technical data of approved types on request

**Contact Data**
Contact arrangement 1 form C (CO)
Rated voltage 24VDC, 120VAC
Max. switching voltage 30VDC, 120VAC
Rated current 1A
Switching power 120VA, 24W
Contact material AgNi Alloy
Min. recommended contact load 1mA at 1VDC
Initial contact resistance 50mΩ at 100mA, 6VDC
Frequency of operation 72000 ops/h
Operate/release time max. 5-5ms
Electrical endurance 1A, 120VAC, resistive, 100×10⁶ ops.
1A, 24VDC, resistive, 100×10⁶ ops.
Contact ratings 1A, 120VAC/24VDC
Mechanical endurance 10×10⁶ operations

**Coil Data**
Coil voltage range 5 to 24VDC

<table>
<thead>
<tr>
<th>Coil versions, DC coil</th>
<th>coil code</th>
<th>Rated voltage VDC</th>
<th>Operate voltage VDC</th>
<th>Release voltage VDC</th>
<th>Coil resistance Ω±10%</th>
<th>Rated coil power mW</th>
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</thead>
<tbody>
<tr>
<td>Standard coil, 300mW</td>
<td>05</td>
<td>3.75</td>
<td>0.25</td>
<td>83</td>
<td>300</td>
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<td>06</td>
<td>4.5</td>
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<td>300</td>
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<td>09</td>
<td>6.75</td>
<td>0.45</td>
<td>270</td>
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<td>12</td>
<td>9.0</td>
<td>0.6</td>
<td>480</td>
<td>300</td>
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<td>24</td>
<td>18.0</td>
<td>1.2</td>
<td>1920</td>
<td>300</td>
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<tr>
<td>Sensitive coil 150mW</td>
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<td>3.75</td>
<td>0.25</td>
<td>166</td>
<td>150</td>
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<td>06</td>
<td>4.5</td>
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<td>240</td>
<td>150</td>
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<td>18.0</td>
<td>1.2</td>
<td>3840</td>
<td>150</td>
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</table>

All figures are given for coil without pre-energization, at ambient temperature +23°C.

**Max DC load breaking capacity**

**Coil operative range**

**Coil temperature rise**

**Insulation Data**
Initial dielectric strength between open contacts 400Vrms
between contact and coil 1000Vrms
Initial surge withstand voltage between contact and coil 1500V (10/160μs)
Clearance/creepage between contact and coil 2.0/1.5mm
Signal PCB Relay TSC (Continued)

Other Data
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.tycoelectronics.com/customersupport/rohsupportcenter
Ambient temperature -30 to 80°C
Category of environmental protection IEC 61810
Vibration resistance (functional) 10 to 50Hz, 1.5mm double amplitude
Shock resistance (functional) IEC 60068-2-27 (half sine) 9.8m/s², 11ms
Terminal type PCB-THT
Weight 3g
Resistance to soldering heat THT 260°C/5s
IEC 60068-2-20 260°C/5s
Packaging/unit tube/50 pcs., box/2000 pcs.

Dimensions

Terminal assignment
Bottom view on solder pins

PCB layout
Bottom view on solder pins

Product code structure

<table>
<thead>
<tr>
<th>Type</th>
<th>Pole</th>
<th>Coil power</th>
<th>Contact material</th>
<th>Coil power</th>
<th>Coil voltage</th>
<th>Sealing</th>
<th>Part number</th>
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Typical product code

TSC -1 12 D 3 H ,000