IRC series

CSS-AC

4-pin, Interface solid state relay, 1-pole, plug-in faston

<table>
<thead>
<tr>
<th>Type</th>
<th>CSS-AC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Solid state relay</td>
</tr>
<tr>
<td></td>
<td>For switching resistive and inductive AC loads</td>
</tr>
<tr>
<td></td>
<td>Instantaneous</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Output</th>
<th>1 N/O contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating range</td>
<td>3 A, 24 ... 250 VAC, 50/60 Hz</td>
</tr>
<tr>
<td>Minimum contact load</td>
<td>50 mA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Control circuit</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage range</td>
<td>5 ... 32 VDC</td>
</tr>
<tr>
<td>Release voltage</td>
<td>&lt; 2,5 VDC</td>
</tr>
<tr>
<td>Input current</td>
<td>5 ... 15 mA</td>
</tr>
<tr>
<td>Stabilised current regulator</td>
<td>yes</td>
</tr>
<tr>
<td>Input voltage protection</td>
<td>IEC-1000-4-5 level 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Output circuit</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>Max. output current</td>
<td>3 A</td>
</tr>
<tr>
<td>Min. output current</td>
<td>50 mA</td>
</tr>
<tr>
<td>Output voltage range</td>
<td>24 ... 250 VAC</td>
</tr>
<tr>
<td>Inrush current</td>
<td>30 A/10 ms</td>
</tr>
<tr>
<td>Max. release voltage</td>
<td>&lt; 1,5 VAC</td>
</tr>
<tr>
<td>Residual current</td>
<td>≤ 0,55 mA</td>
</tr>
<tr>
<td>di / dt</td>
<td>≤ 50 A/µs</td>
</tr>
<tr>
<td>Pt value</td>
<td>50 A²s</td>
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</tbody>
</table>

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<thead>
<tr>
<th>Specifications</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>Ambient temperature operation/storage</td>
<td>-25 ... 60 °C /-40 ... 80 °C</td>
</tr>
<tr>
<td>Test voltage between input/output</td>
<td>4 kV rms/1min</td>
</tr>
<tr>
<td>Pick-up time</td>
<td>max. 1/2 wave</td>
</tr>
<tr>
<td>Release time</td>
<td>2 ms + 1/2 wave</td>
</tr>
<tr>
<td>Weight</td>
<td>28 g</td>
</tr>
</tbody>
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<tr>
<th>Applications</th>
<th></th>
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<tbody>
<tr>
<td>It is specially suitable to switch inductive loads up to 3A/250 VAC.</td>
<td></td>
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<tr>
<td>For switching loads with a high inrush or overcurrent (max. Di/dt 50A/µs) as transformers, motors or fluorescents, the maximum output current will limit to 2 A.</td>
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</tbody>
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<thead>
<tr>
<th>Accessories</th>
<th></th>
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<tbody>
<tr>
<td>Socket</td>
<td>S10, S10-M, S10-P</td>
</tr>
</tbody>
</table>

![CSS-AC diagram](image)

![AC derating curve](image)

![Dimensions [mm]](image)

![Technical approvals, conformities](image)