For technical advice on your specific requirements, contact our expert consultants on +44 (0) 1483 869070 or export@hawco.co.uk
Solid State Relay
KSI240 Series Single Phase AC Output

- Zero switching or random-on
- Ratings from 10A to 100A @ 48-280VAC
- Triac or SCR output for heavy industrial loads
- AC or DC input
- Superior thermal performance
- Dielectric strength 4000VACrms
- LED indication
- Internal RC/MOV and TVS protection circuit as option

Product Description
KSI240 series industrial single phase relay with triac or SCR output is the most widely used in industry application. The relay can be used for resistive, inductive and capacitive loads. The control input voltage is 4-32VDC or 90-280VAC, output current rate 10A, 25A, 40A, 60A, 80A, 100A @ 48-280VAC.

Product Selection

<table>
<thead>
<tr>
<th>Description</th>
<th>10A</th>
<th>25A</th>
<th>40A</th>
<th>60A</th>
<th>80A</th>
<th>100A</th>
</tr>
</thead>
<tbody>
<tr>
<td>D:4-32VDC</td>
<td>KSI240D10</td>
<td>KSI240D25</td>
<td>KSI240D40</td>
<td>KSI240D60</td>
<td>KSI240D80</td>
<td>KSI240D100</td>
</tr>
<tr>
<td></td>
<td>KSI240D10R</td>
<td>KSI240D25R</td>
<td>KSI240D40R</td>
<td>KSI240D60R</td>
<td>KSI240D80R</td>
<td>KSI240D100R</td>
</tr>
<tr>
<td>AC:90-280VAC</td>
<td>KSI240A10</td>
<td>KSI240A25</td>
<td>KSI240A40</td>
<td>KSI240A60</td>
<td>KSI240A80</td>
<td>KSI240A100</td>
</tr>
</tbody>
</table>

Technical Specification

**Input Circuit**

<table>
<thead>
<tr>
<th>Control Voltage Range</th>
<th>DC Input</th>
<th>4-32VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Turn-On Voltage</td>
<td>DC Input</td>
<td>4VDC</td>
</tr>
<tr>
<td>Minimum Turn-Off Voltage</td>
<td>DC Input</td>
<td>1VDC</td>
</tr>
<tr>
<td>Maximum Input Current</td>
<td>DC Input</td>
<td>25mA</td>
</tr>
</tbody>
</table>

**Output Circuit**

<table>
<thead>
<tr>
<th>Load Voltage Range</th>
<th>DC Input Random-On</th>
<th>48-280VAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Turn-On Time</td>
<td>DC Input Zero-On</td>
<td>1/2AC Cycle + 1ms</td>
</tr>
</tbody>
</table>

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### General Information

<table>
<thead>
<tr>
<th>AC Input</th>
<th>20ms</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Input</td>
<td>1/2AC Cycle + 1ms</td>
</tr>
<tr>
<td>AC Input</td>
<td>40ms</td>
</tr>
</tbody>
</table>

#### Maximum Turn-Off Time
- 10A: 150A
- 25A: 400A
- 40A: 440A
- 60A: 860A
- 80A: 1280A
- 100A: 1550A

#### Maximum Surge Current [@10ms]
- 10A: 350A²s
- 25A: 900A²s
- 40A: 970A²s
- 60A: 3698A²s
- 80A: 8192A²s
- 100A: 12012A²s

#### Maximum \(i^2t\) For Fusing [@10ms]
- 10A: 350A²s
- 25A: 900A²s
- 40A: 970A²s
- 60A: 3698A²s
- 80A: 8192A²s
- 100A: 12012A²s

#### Transient Overvoltage
- 600Vpk

#### Maximum Off-State Leakage Current [@Rated Voltage]
- 5mA

#### Maximum On-State Voltage Drop [@Rated Current]
- 1.6Vrms

#### Minimum Off-State dv/dt [@Maximum Rated Voltage]
- 500V/μs

### Application

### Installation

[Diagram of installation details]

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**Important Notice**

1. When the ambient temperature is over 40°C or many KSI series are installed closely together, the user should take load discount into account according to the thermal curve.

2. If the load current is over 10A, suitable heatsink should be added to the SSR.

**Product Certification**

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