Current Sensing Switches
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RoHS
COMPLIANT
2011/65/E

OEMs
Test & Evaluation Units for OEMs
Free program expedites evaluation process. See page 1 for details.

ASC SERIES
Factory-calibrated Current Operated Switches

ASC Series Current Operated Switches are precision calibrated at the factory per customers’ specifications and guaranteed within 1% accuracy. Because the switch is factory calibrated eliminating the need to turn the potentiometer to the correct position in the field, installation time is substantially reduced resulting in a significant cost savings. The ASC combines a current transformer, signal conditioner and limit alarm into a single package for use in status monitoring or proof of operation applications and is perfect for OEM applications where the need for a limit alarm is required. Available in a solid-core or a split-core case to maximize ease of installation.

Current Sensing Switch Features
Universal Output
• N.O. or N.C. solid-state switch for control circuits up to 135 VAC/DC.
• Compatible with most automation systems.
Self-powered
• Cuts installation and operating costs.
Precision-Calibrated Factory Set Trip Point
• Speeds startup.
• Improves safety.
Solid- or Split-core Case
• Versions tailored for each installation.
LED Indication
• Provides quick visual indication of contact status.
Built-in Mounting Feet
• Simple, two-screw panel mounting or attach with DIN rail adapters (included).*
Designed for UL/cUL and CE Approval
• Accepted worldwide.
*For information on the DIN rail accessories kit, see page 122.

Air Handling Fan Protection
Factory-set trip points are ideal when there are several loads, all using the same motor to drive the fan blades.

For additional Application Examples, go to www.nktechnologies.com/applications
### Current Sensing Switch Dimensions

#### FT Case

![Diagram of FT Case Dimensions]

#### SP Case

![Diagram of SP Case Dimensions]

### Current Sensing Switch Specifications

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>None, Self-powered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setpoint Range</td>
<td>• Solid-core: 2-150 amps (factory set)</td>
</tr>
<tr>
<td></td>
<td>• Split-core: 3-150 amps (factory set)</td>
</tr>
<tr>
<td>Output Description</td>
<td>Isolated solid-state relay</td>
</tr>
<tr>
<td>Output Rating</td>
<td>• N.O. Version: 0.3 A @ 135 VAC or VDC</td>
</tr>
<tr>
<td></td>
<td>• N.C. Version: 0.3 A @ 135 VAC or VDC</td>
</tr>
<tr>
<td></td>
<td>• Not polarity sensitive</td>
</tr>
<tr>
<td>Off-state Leakage</td>
<td>&lt;10 μA</td>
</tr>
<tr>
<td>Response Time</td>
<td>120 ms</td>
</tr>
<tr>
<td>Time Delay</td>
<td>None</td>
</tr>
<tr>
<td>Hysteresis</td>
<td>5%</td>
</tr>
<tr>
<td>Overload</td>
<td>400 A @ 6 sec., 1000 A @ 1 sec.</td>
</tr>
<tr>
<td>Isolation Voltage</td>
<td>UL listed to 1270 VAC, tested to 5 KV</td>
</tr>
<tr>
<td>Case</td>
<td>UL94 V-0 Flammability Rated</td>
</tr>
<tr>
<td>Environmental</td>
<td>-4 to 122°F (-20 to 50°C) 0–95% RH, non-condensing</td>
</tr>
<tr>
<td>Listings</td>
<td>Designed for UL/cUL and CE approval</td>
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</tbody>
</table>

### Ordering Information

Sample Model Number: ASC-NOU-6-SP-090

Factory set AC current operated switch, normally open, 60 Hz frequency, split-core case, 90 A trip point. (DIN rail adapters are included)

<table>
<thead>
<tr>
<th>ASC-</th>
<th>(1)</th>
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</table>

1. Output Rating
   - NOU Normally Open
   - NCU Normally Closed

2. Primary Circuit Frequency
   - 6 60 Hz
   - 5 50 Hz

3. Case Style
   - FT Solid-core, Top Term.
   - SP Split-core

4. Factory Set Trip Point
   - 002 to 150 Solid-core Model Factory Set Trip Point in Amps.
   - 003 to 150 Split-core Model Factory Set Trip Point in Amps.