CS Current Sensor
The CS is an over or under current sensing control. Toroidal sensing means no break in the power wiring.

The combination of the over current LED, current adjustment, and percentage trip adjustment provides easy and accurate setting.

CS can handle loads up to 20 amps with time delays up to 100 secs.

Sense Mode
When the sensed current increases above or falls below the setpoint, the time delay will start.
At the end of the delay, the output will be energized.

**FEATURES**

- Over current and under current sensing
- Toroidal sensing provides complete isolation between sensed current and control circuit
- Easy setting of trip point with unique combination of LED indicator, current adjustment and percentage potentiometers.
- Can switch up to 20 amps (1.5HP)
- Totally encapsulated for protection from harsh environments
- Single screw mounting
- Transient and polarity protected
- No heat sinking required
- CMOS time delay
- 100% Operational testing before shipping
- RoHS compliant
**Input Voltage:** +20%/-10%
VDC: 12 or 24
VAC: 24, 120, 230, 50/60Hz

**Time Delay:**
*Timing Mode:* Delay After Sense
*Type:* Digital CMOS
*Time Range:* 0.1 second to 10 seconds (adjustable)
1 to 100 seconds (fixed)

**Repeatability:** ±0.5%

**Setting Accuracy:** ±5% or 50 ms., whichever is greater

**Reset Time:** 100 milliseconds

**Relay Life Expectancy:**
*Mechanical:* Up to 10 million operations
*Electrical:* 100,000 operations at max. load

**Protection:**
*Polarity Protection:* All DC units have reverse polarity protection
*Transient Protection:* 18 joules
*Dielectric Strength:* 1800V RMS 60Hz

**Temperature Ranges:**
*Storage:* -40°C to +85°C
*Operating:* -25°C to +65°C

**Sensor:** Toroid—Through hole wiring
*Current Range:* 0.5 to 20 amps
*Frequency:* 50/60Hz
*Trip Point Hysteresis:* 5% typical
*Trip Point Drift vs Temperature:* ±2% typical, ±5% max
*Fixed Setting Accuracy:* ±5%

**Options Selection**

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</thead>
<tbody>
<tr>
<td>Current Sensor</td>
<td>CS</td>
<td>B = Hot</td>
<td>1 120 VAC</td>
<td>Over U = Under</td>
<td>F = Yes</td>
<td>F = 0</td>
<td>O = 10 secs</td>
<td>C = Fixed A = Integral knob</td>
<td>VARIABLE SET POINT 010 0.1 to 10 secs</td>
<td>C = Fixed A = Integral knob</td>
<td>* = 0</td>
<td>H 10 Amps</td>
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<tr>
<td></td>
<td></td>
<td>* = Isolated</td>
<td>2 230 VAC</td>
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<td>* = No</td>
<td>H = 5%</td>
<td></td>
<td>FIXED TIME PERIOD Specify time in full seconds from 1 to 100</td>
<td>FIXED SET POINT 020 0.5 to 20 secs</td>
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<td>P = 20%</td>
<td>JN 15 Amps (1.0 HP)</td>
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<tr>
<td></td>
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<td>3 24 VAC</td>
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<td>J 20 Amps (1.5 HP)</td>
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Specifications subject to change without notice.