



## Class 97

### Features

- Start Up Delay
- Trip Delay
- Overcurrent or Undercurrent Trip Applications
- Manual or Automatic Reset

Start-up delay, trip delay and current trip (undercurrent trip on Model 97U and overcurrent trip on the Model 97A) adjustments are provided to match the current sensitive relay to a specific application. Reset can be switch selectable for manual/automatic or provided as an automatic only reset with no switch.

### Description

The Furnas Brand Class 97 current sensitive relay is a device that monitors motor current and provides an instantaneous output if the motor current is over (Model 97A) or under (Model 97U) an adjustable set point. These over or under current conditions may be the result of a change in system status such as a jam, broken belt or dry well. Control voltage of 120V AC is required to operate the relay. A Form C, 2.5 amp relay output is provided. No current transformers are required below 100 amps (56 amps for undercurrent relay).



Class 97 Current Sensitive Relay

### Electrical Data

Supply Voltage:	100–140V AC, 60Hz (240V AC available)												
Start Up Time Delay:	1–6 seconds. Begins when motor current is above 10% of current trip point. Output is inhibited if motor current is below 10% of current set point.												
Trip Time Delay:	Model 97U 0.5–2.5 seconds Model 97A 0.2–2.5 seconds												
Reset:	Manual/Automatic (97-M)— switch selectable Automatic only (97-A)												
Fault Indicator:	LED, ON during fault												
Contact Rating:	1 Form C, 2.5 amp @ 250V AC (NEMA C300)												
Wire Termination:	Saddle clamp Wire range: Two #12 to #18 gauge												
Sensing Loop Wire Size:	6 gauge maximum except 97AAF3010 2/0 gauge maximum												
Operating Temperature Range:	–25°C to +60°C												
Set Point Repeatability:	±2% over temperature range of 0° to +60°C ±4% over temperature range of –25° to 0°C												
Current Transformers (Optional):	<table border="1"> <thead> <tr> <th>Rating</th> <th>Part Number</th> </tr> </thead> <tbody> <tr> <td>150:5</td> <td>97CT002</td> </tr> <tr> <td>200:5</td> <td>97CT003</td> </tr> <tr> <td>250:5</td> <td>97CT004</td> </tr> <tr> <td>300:5</td> <td>97CT005</td> </tr> <tr> <td>400:5</td> <td>97CT006</td> </tr> </tbody> </table>	Rating	Part Number	150:5	97CT002	200:5	97CT003	250:5	97CT004	300:5	97CT005	400:5	97CT006
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### Operation

