

VFD & Constant Volume AutoSet™ Current Switch

Self-calibrating for proof of flow
0.5-135A range
N.O. 30VAC/DC output
Optional command relay



AutoSet™



DESCRIPTION

The AutoSet™ VFD self-calibrates to detect proof of flow on both variable frequency driven and constant volume motors on fans or pumps. The C-2350VFD automatically set the proper threshold, eliminating false alarms associated with varying frequencies. Detects motor undercurrent conditions such as belt loss, coupling shear, and mechanical failure on fans and pumps while reducing installation time.

APPLICATIONS

- Detecting belt loss, coupling shear, and mechanical failure on variable frequency drives and constant volume fans and pumps

FEATURES AND BENEFITS

Self-calibration for proof of flow on fans and pumps

- Works without time consuming “training” of sensor—simply operate motor once above 40 Hz
- No need to open hot starter enclosures—save on labor as well as improve safety
- Only VFD sensor capable of functioning on VFDs to 0.5A; wrap conductor turns for the smallest of VFDs
- Sensor is always properly adjusted—no call backs

Split-core with optional command relay

- Easy installation and provides stop/start/status in a unitary device—saves component and installation space/cost

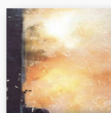
Maintenance-free—no call backs

- Superior to differential pressure sensors
- Industry leading 7 year limited warranty

Save time and money by eliminating hazardous calibration in energized enclosures



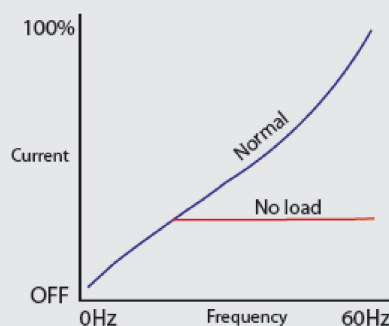
No hazardous guesswork.
Multi-turn adjustments are a thing of the past; no time consuming “training!”



Reduce the risk of arc flash by setting in advance and not c

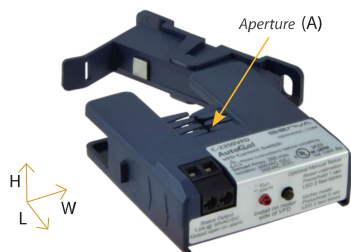
SET POINT OPERATION

Positive proof of flow for both VFD and constant volume fans and pumps



7 year limited warranty

SPLIT CORE C-2350VFD



L: 2.5" H: 0.57" W: 2.23"
A: 0.75" x 0.75"

- Mount sensor without removing conductor for installation savings
- Clamp on conductor with iris, or use detachable base to screw or DIN mount
- Larger 0.75" aperture accommodates oversized conductors

OPTIONAL RELAY



L: 0.84" H: 0.72" W: 2.06"

- Add to 2350VFD series to get start, stop, status in a single device
- Reduces the number of installed components... saves time and space
- Removable relay facilitates service

ORDERING INFORMATION

SPLIT CORE	Min (on)	Max A	Output*	Sensor Power
	0.5A @ 60Hz			
	1.5A @ 20Hz	135A	1.0A@30VAC/DC	Induced
	2.5A @ 10Hz			

COMMAND RELAY	Contact rating	Coil (nominal)
CR3-24	N.O. 10A @ 125VAC	24VAC/DC 15mA
CR4-24	N.C. 10A @ 125VAC	24VAC/DC 15mA
CR3-12	N.O. 10A @ 125VAC	9-12VDC 30mA
CR4-12	N.C. 10A @ 125VAC	9-12VDC 30mA

SPECIFICATIONS

Standard Output Rating	1.0A@30VAC/DC
Output Type	N.O., solid-state FET
Temperature Rating	-15 to 60 °C
Insulation Class	600V RMS. For use on insulated conductors only! Use minimum 75 °C insulated conductor
Frequency Range	10-120Hz; proof of flow loss alarm at 40Hz+



Tech tip for smaller motors and loads

For small motors: If the sensor you have will not turn on due to low amperage, wrap the conductor through the aperture. Each wrap will increase the amperage by 1x. For best resolution, choose the currents sensor that most closely matches your maximum motor or load full load amps (FLA)



Warning: Refer to installation instructions that accompany product and heed all safety instructions. Do not rely on current status LED to indicate presence of power.

WIRING FOR C-2350VFD

