

Fractional horsepower motors in the industry

Fractional horsepower motors are becoming increasingly popular in building automation applications. This shift has resulted in a need for a variety of current sensors that cater to these fractional horsepower motors. Because the full load amperage of these motors is often under 5 amps, engineers and project managers want current sensors that are scaled to function at this low amperage level. Senva offers multiple current sensors that can help monitor for status, proof of flow and even proof of flow on variable frequency drives for those applications with lower amperage ranges.

Monitoring fractional horsepower motors for status

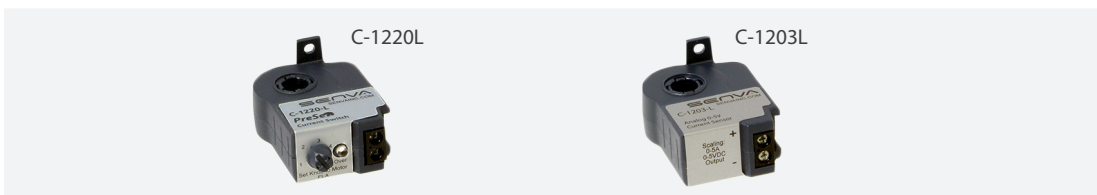
Senva offers 4 sizes of go/no go fixed current sensors for monitoring status on fractional horsepower motors. All of the Senva fixed current sensor line includes Electronically Commutated Motor (ECM) compatibility to ensure that you don't experience false trips when monitoring ECMs. Click the images below for detailed information on our fixed current sensor series and ECM compatibility.



Monitoring for proof of flow on fractional horsepower motors

There are a variety of options for monitoring fractional horsepower motors. If a digital current sensor is called for Senva features various Preset™ current sensors that can be set using a dial to a specific amperage range. For applications of 5 amps and below, the C-1220L has an adjustable set-point range of 0.75-5A and will detect a change in amperage of 20% or greater. If your motor is over 5 amps, you can browse through the full line of Preset™ current sensors by clicking the C-1220L below.

For an analog signal, Senva offers the C-1203L which is a current transducer with a 0-5A range and 0-5 VDC output. This analog current sensor is ideal for fractional horsepower motors because of its low amperage range and size (it's only the width of a quarter!) to make it easy to install in any enclosure. For a complete list of our analog current sensors, click the C-1203L below.



Monitoring fractional horsepower VFDs

Standard Variable Frequency Drive (VFD) sensors require 3.5A or more to self-power the microprocessor that keeps the sensor calibrated. This requirement is problematic when working with small and fractional horsepower motors that simply don't have 3.5A or more on the load side of the motor. Senva has created the C-2350VFD-L, the industry's only VFD sensor, that operates in a range of 0.5-15A to provide proof of flow on small and fractional horsepower VFDs. Click the C-2350VFD-L below to learn more about our complete VFD current sensor line.

