



ASXP Series for Motor Maintenance Simply the Most Versatile Current Relay Available

The ASXP series current relay provides a control engineer with features to help solve many motor maintenance requirements:

- When the sensor initially sees current, there is a set delay of two seconds before the output relay closes. This allows the motor current inrush to occur without tripping the output contact in most applications.
- After the motor is running, a separate adjustable delay on current increase can be set to allow the sensor to “ride through” short duration overloads. The delay can be set between 0–15 seconds. Grinding and cutting processes often see brief periods of overloads, not long enough to cause damage to the motor windings, but they can cause standard current operated switches to trip.
- Both the current trip point and run delay are field adjustable using a single-turn potentiometer. Each potentiometer, mounted on the top of the sensor, has an indicating knob so the current magnitude can be set before or after installation, along with the time delay before the output relay energizes. (Setting the adjustments before installation is much easier and safer than when working inside a motor control center bucket or a component rich control panel.)
- The indicating LED is dual color output. With power applied to the sensor, the LED shows green; when the sensor output is tripped, the LED changes to red. This feature helps with initial set up and trouble shooting. The installer needs to only look at one light to determine proper sensor operation.
- The output is an electromechanical single pole, single throw relay, rated to control up to ten amps at 240 VAC, and five amps up to 100 VDC. This capacity allows the sensor to control contactor coils or other inductive loads without concern. The contact can be used to provide input to a programmable controller or distributed control system with zero off state leakage (often seen with other manufacturer’s solid state output “contacts”).

Applications

Motor Protection

- Use for motor condition monitoring.
- Use in place of pressure flow sensors or thermal switches which are intrusive and more expensive to install.
- Much quicker response time than Class 10 overload relays.

ASXP Current Operated Switches – Compact Design, Simple Adjustments, and NK Technologies’ Proven Reliability

ASXP Series Current Operated Switches are powered versions of NK Technologies’ popular current switches with integral time delay. A fixed two-second delay minimizes nuisance alarms during start-up and operation in motor or heater status applications.

After startup a second 0–15 second delay can be set. For use with 24VAC/DC or 120VAC supplies, this high performance product offers OEM-caliber accuracy, precision tolerances, low hysteresis and low frequency operation. Available with status LED and solid-core enclosure as standard.

