# **ASXP SERIES**

# **Current Sensing Switches**

ASXP Series Current Sensing Switches are powered versions of our popular current switches with integral time delay. A fixed two-second delay upon initial energization of monitored load minimizes nuisance alarms during startup and operation in motor or heater status applications. After startup a separate 0-20 second delay can be set. For use with 24 VAC/DC or 120 VAC supplies, this high performance product offers OEMcaliber accuracy, precision tolerances, low hysteresis and an operation range between 40 and 100 Hz. Available with status LED and solid-core case as standard.



#### **Current Sensing Switch Applications**

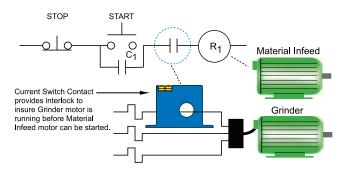
#### **Motor Protection**

- Serves as an electronic proof-of-operation; detects current draw changes in motors when they encounter problems such as pumps running dry or impending bearing failure.
- Non-intrusive, less expensive to install than differential pressure flow sensors or thermal switches.
- Much quicker response time than Class 10 overload switches.

#### **High Inrush or Temporary Overload Current**

• Factory-set two-second delay on startup eliminates nuisance trips from high inrush or short overload conditions. After startup, a second 0-20 second useradjustable delay is available.

#### Safety Interlocks



 For additional Application Examples, go to www.nktechnologies.com/applications

#### **Current Sensing Switch Features**

#### Fixed Startup/Delay Timer

• Factory-calibrated trip timer set to 2 seconds to eliminate nuisance alarms due to startup inrush or temporary overcurrent conditions.

#### Form C Electromechanical Relay Output

• Contact rating of 1 A, up to 120 VAC, provides adequate switching capacity for use with most motor control systems.

#### Improved Ease of Installation and Use

- Eliminates need for separate time delay relay.
- Choice of 24 VAC/DC or 120 VAC supply models.
- LED provides indication of trip point contact status.
- Setpoint adjustable from 1-80 A.

#### **Industrial Grade Performance**

• Repeatable performance, precise time delay setpoint, constant hysteresis and linear trip point adjustment.

# **UL/cUL and CE Approved**

· Accepted worldwide.

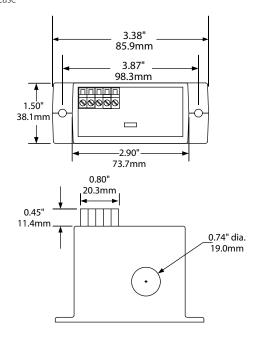


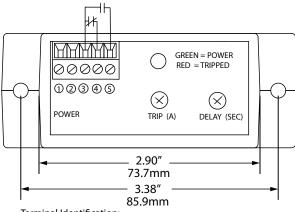




## **Current Sensing Switch Dimensions**

FL Case



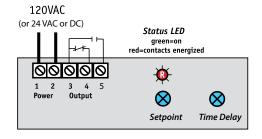


Terminal Identification:

- 1 & 2 Power Connection 3 - Output Common
- 4 Output Normally Closed Contact 5 Output Normally Open Contact

Use up to 14 AWG copper wire. Tighten terminals 4.4 to 5.3 lbs.- in. torque.

# **Current Sensing Switch Connections**



# **Current Sensing Switch Specifications**



• 120 VAC (108–136 V) • 24 VAC/DC (22–26 V)
<2 VA
• ASXP1: 1–20 A (adjustable) • ASXP2: 20–50 A (adjustable) • ASXP3: 50–80 A (adjustable)
Electromechanical SPDT relay
1 A @ 120 VAC; 2 A @ 30 VDC
2.0 sec. (fixed on startup) 0–20 sec. (adjustable after startup)
5%
UL listed to 1270 VAC, tested to 5 KV
40–100 Hz
UL94 V-0 Flammability Rated
-4 to 122°F (-20 to 50°C) 0–95% RH, non-condensing
UL/cUL, CE

## **Current Sensing Switch Ordering Information**

Sample Model Number: ASXP1-SDT-120-FL

AC current sensing switch, fixed 2 sec. delay, SPDT 1 A, 120 VAC output, 120 VAC/DC supply, solid-core case. (DIN rail adapters are included)



(1) Input Range

1	1–20 A
2	20–50 A
3	50-80 A

(2) Output Type

SDT SPDT 1 A @ 120 VAC

(3) Power Supply

24U	24 VAC/DC
120	120 VAC

(4) Case Style

Solid-core



