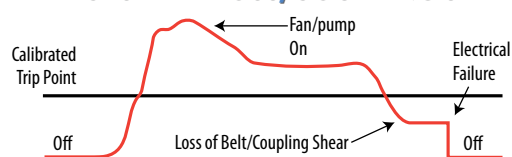


# Current Switches with Relay: Adjustable Trip Point, High Voltage Output

## Hx39, Hx49 & Hx59 Series

**5 Year  
Warranty**


### DETECTS BELT LOSS/COUPLING SHEAR!



Now you can easily detect when drive belts slip, break, or pump couplings shear. In fact, a typical HVAC motor that loses its load has a reduction of current draw of up to 50%. That's why our sensors are the industry standard for status.

### Status & Control In One Package

#### FEATURES

- Combines command relay & fan/pump status sensor in a single, easy to install unit
- Reduces number of components installed...fits better in small starter enclosures
- Command relay and status in a single unit
- Easier to install than differential pressure switches...no tubing needed
- Detect belt loss & motor failure...ideal for fan & pump status
- Bracket on H939, H949, and H959 can be installed in three different configurations...added flexibility
- H749 and H949 feature SPDT command relay...saves installation time
- Reduced charges from electrician
- Relay and status LEDs for easy setup
- Polarity insensitive status output...fast, trouble-free installation
- Adjustable trip point for current sensor status...fits many applications
- 5-year warranty

#### SPECIFICATIONS

<b>Sensor Power</b>	Induced from monitored conductor
<b>Insulation Class</b>	600VAC RMS
<b>Frequency Range</b>	50/60 Hz
<b>Temperature Range</b>	-15° to 60°C (5° to 140°F)
<b>Humidity Range</b>	10-90% RH non-condensing
<b>Hysteresis</b>	10% Typical
<b>Terminal Block Wire Size</b>	24-14 AWG (0.2 to 2.1 mm <sup>2</sup> )
<b>Terminal Block Torque</b>	3.5 to 4.4 in-lbs (0.4 to 0.5 N-m)
<b>Agency Approvals</b>	UL 508 open device listing, CAT III, pollution degree 2, basic insulation

Do not use the LED status indicators as evidence of applied voltage.

#### RELAY CONTACT RATINGS

Hx39, Hx59 (SPST, N.O.)

Resistive..... 10A@250VAC, 30VDC

Inductive..... 5A@250VAC, 30VDC

Hx49 (SPDT)

Resistive..... 8A@250VAC, 30VDC

Inductive..... 3.5A@250VAC, 30VDC

#### TYPICAL COIL PERFORMANCE

Voltage	AC	DC
24V.....	10mA.....	10mA
12V (Hx59).....		20mA
<b>Pull In Voltage</b>		
Hx39 .....		20.1VDC
Hx49 .....		20.1VDC
Hx59 .....		8.4VDC
<b>Drop Out Voltage</b>		
Hx39 .....		5.2VDC
Hx49 .....		5.2VDC
Hx59 .....		3.0VDC

#### DESCRIPTION

**Hawkeye Relay Combination Series** high voltage output current switches are the ideal solution for the automation installer. These units combine a current switch and relay into a single package, reducing the space required for total control of fans and pumps. The integrated current switch and relay operate independently of one another. All relay connections are externally available for maximum flexibility.

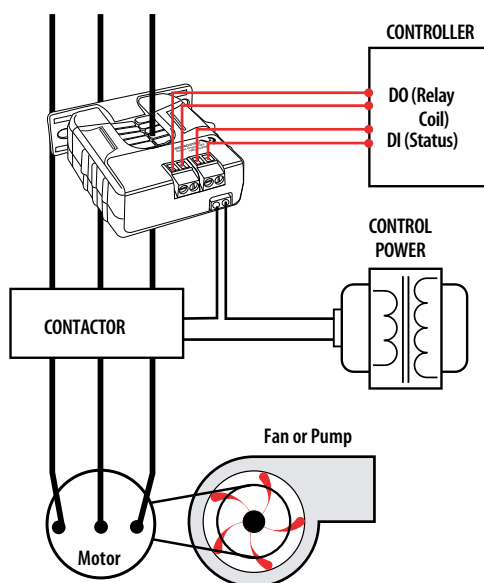
These products perform the functions of start/stop and status monitoring with one device instead of two.

#### APPLICATIONS

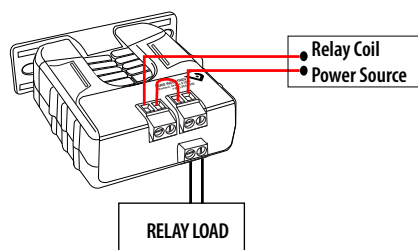
- Starting/stopping and monitoring positive status of motors
- Detecting belt loss and coupling shear

## WIRING DIAGRAMS

Start/Stop Monitoring of Fan /Pump Motors

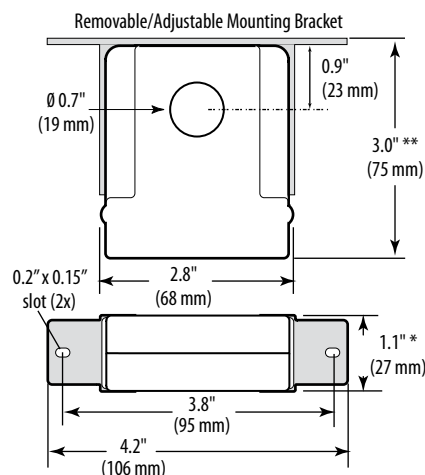


Relay Controlled Directly by Status Contacts

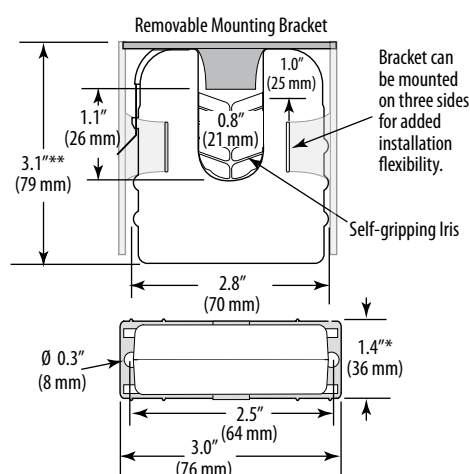


## DIMENSIONAL DRAWINGS

H739/H749



H939/H949/H959



\* Terminal block may extend up to 1/8" over the height dimensions shown.

## ORDERING INFORMATION



MODEL	AMPERAGE RANGE	STATUS OUTPUT (max.)	MIN. TRIP POINT	RELAY TYPE	RELAY COIL	HOUSING	STATUS LED	RELAY POWER LED	UL
H739	1 - 135A	N.O. 0.2A@120VAC/DC	1A or less	SPST, N.O.	24VAC/DC	Solid-core	●	●	●
H749	1 - 135A		1A or less	SPDT	24VAC/DC	Solid-core	●	●	●
H939	2.5 - 135A		2.5A or less	SPST, N.O.	24VAC/DC	Split-core	●	●	●
H949	2.5 - 135A		2.5A or less	SPDT	24VAC/DC	Split-core	●	●	●
H959	2.5 - 135A		2.5A or less	SPST, N.O.	12VDC nom.	Split-core	●	●	●

## ACCESSORIES

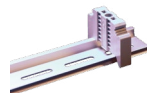
DIN Rail Clip Set (AH01)  
DIN Rail (AV01) and DIN Stop Clip (AV02)



AH01



AV01



AV02