



## STATUS AND CONTROL IN ONE PACKAGE



US Patent 6,005,760

H739



Solid-core with 24V SPST Relay

H749



Solid-core with 24V SPDT Relay

H939



Split-core with 24V SPST Relay

H949



Split-core with 24V SPDT Relay

H959



Split-core with 12V SPST Relay

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

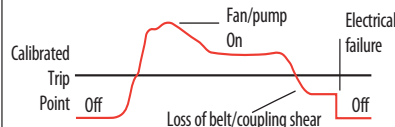
Hawkeye Relay Combination Series high voltage output current switches are the ideal solution for the automation installer. These units combine a current switch and relay into a single package, reducing the space required for total control of fans and pumps. The integrated current switch and relay operate 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

### 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.



Maximize Reliability  
Minimize Installed Cost

## SPECIFICATIONS

<b>Sensor Power</b>	Induced from monitored conductor	
<b>Insulation Class</b>	600VAC RMS	
<b>Frequency Range</b>	50/60Hz	
<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 Maximum Wire Size</b>	14 AWG	
<b>Terminal Block Torque (nominal)</b>	4 in-lbs (0.45 N-m)	
<b>Agency Approvals</b>	UL 508 open device listing	

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

## 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 additional wiring needed
- Detect belt loss and motor failure...ideal for fan and pump status
- Bracket on H939, H949, and H959 can be installed in three different configurations...added flexibility

- H749 and H949 feature SPDT command relay

## Now— one device does the job of two

- Reduced charges from electrician
- Relay and status LEDs for easy setup
- Polarity insensitive status output
- Adjustable trip point for current sensor status
- 5-year limited warranty

## RELAY CONTACT RATINGS

Hx3x, Hx5x (SPST, N.O.)

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

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

Hx4x (SPDT)

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

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

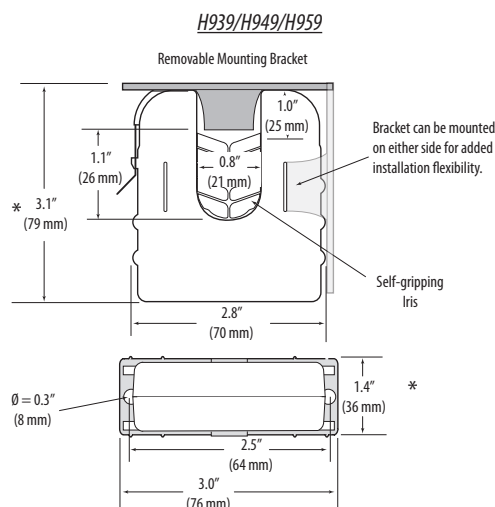
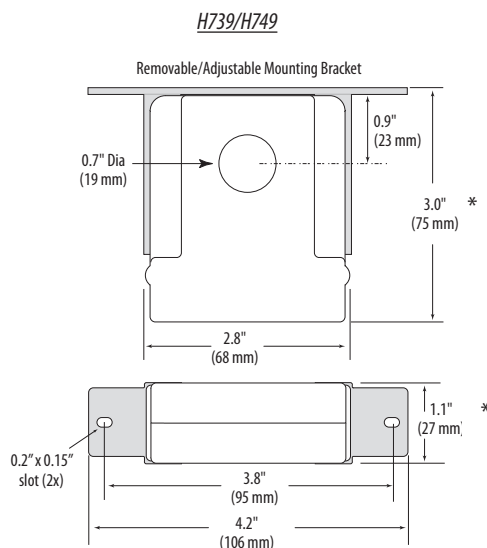
## TYPICAL COIL PERFORMANCE

Voltage	AC	DC
24V.....	10mA	10mA
12V.....		20mA





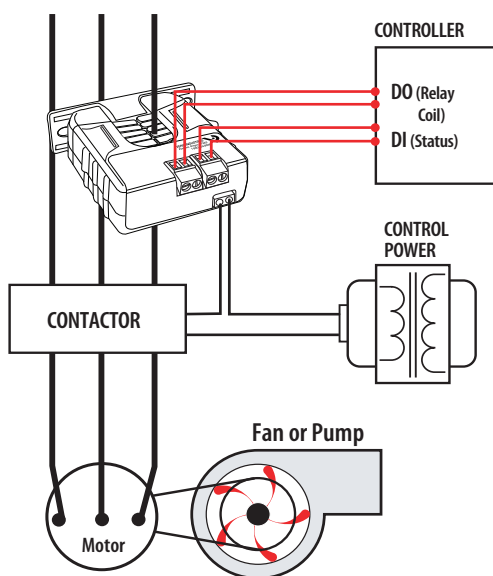
**DIMENSIONAL DRAWINGS**



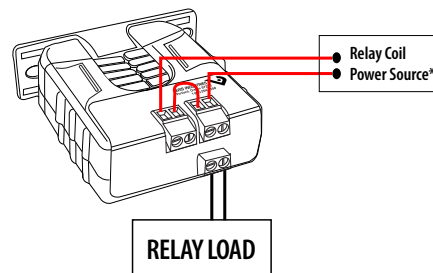
\* Terminal block may extend up to 1/8" over the height dimensions shown.

**APPLICATION/WIRING EXAMPLE**

Start/Stop Monitoring of Fan /Pump Motors



Relay Controlled Directly by Status Contacts



**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, DIN Rail, and DIN Stop Clip...see page 219.

