VFD Switches & Current Sensors

Variable Frequency Drive Monitoring and Control

APPLICATIONS

- Monitoring positive status on motors controlled by variable frequency drives
- Replacing pressure switches
- Measuring current and load trending

FEATURES (H720)

- Superior to Hall effect and metal core sensors...frequency tolerant 10-80 Hz
- Accurate to 0.5% of full scale
- Suitable for load side monitoring of VFDs
- Adjustable zero and span for precise scaling
- Adjustable mounting bracket for easy placement

FEATURES (H904/934)

Microprocessor-based...real labor saver...No need to calibrate to detect belt loss on VFDs

- Self-adjusting trip point...factory programmed to detect belt loss undercurrent conditions
- Provides accurate status for VFD loads
- Automatically compensates for the effects of frequency and amperage changes associated with VFDs
- Nuisance Reduction feature...provides a secondary setpoint option of 50% of the originally measured current
- LED indicates normal and alarm conditions
- Huge labor savings—no need to calibrate in live starter enclosures...install and go
- Available with a relay (H934)...status and control in one package, saving time and space
- Bracket can be installed in three different configurations...added flexibility

Accurately detects belt loss and coupling shear on VFD driven motors

- Monitors both frequency and amperage...distinguishes normal drops in amperage due to frequency changes from abnormal drops due to mechanical failure
- Split-core design is ideal for retrofits...no need to remove conductor
- 5-year limited warranty



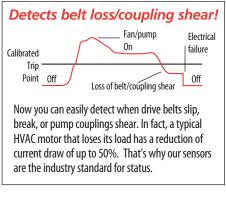
DESCRIPTION

Hawkeye 904/934 and 720 microprocessor-based current status switches provide a unique solution for accurately monitoring status of motors controlled by variable frequency drives.

Warran

The H904/934 store the sensed amperage values for normal operation at various frequency ranges in non-volatile memory. This information allows the device to distinguish between a reduced amp draw due to normal changes in the frequency and an abnormal amp drop due to belt loss or other mechanical failures. The relay on the H934 is isolated from the current switch, and all relay connections are externally accessible on the device.

The H720 analog output corresponds to current in the monitored conductor from 10 to 80 Hz.





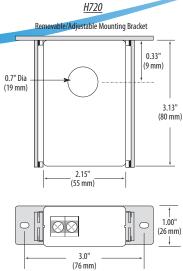
SPECIFICATIONS

Sensor Power	Induced from monitored conductor
Insulation Class	600VAC RMS
Frequency Range	34 to 75 Hz (belt loss indication); 20 to 34 Hz (on/off status)
Temperature Range	-15° to 60°C (5° to 140°F)
Humidity Range	10-90% RH, non-condensing
Off Delay	0 sec to 2 min.
Terminal Block Maximum Wire Size	14 AWG
Terminal Block Torque (nominal)	4 in-lbs (0.45 N-m)

UL 508 open device listing Do not use the LED status indicators as evidence of applied voltage.



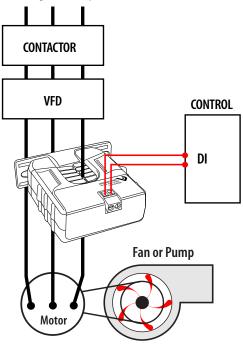
DIMENSIONAL DRAWINGS



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

APPLICATION/WIRING DIAGRAM (H904)

Monitoring Fan /Pump Motors for Positive Proof of Flow



NOTE: The H904 is not intended for use in staged pump or variable inlet vane applications.

ORDERING INFORMATION

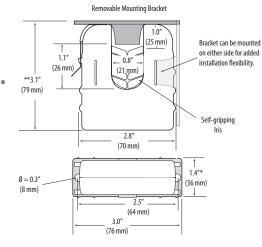
		E150462						
MODEL	AMPERAGE RANGE	STATUS OUTPUT (max.)	MIN. TRIP Point	RELAY TYPE	HOUSING	STATUS LED	RELAY Power Led	UL
H720	200A, 10-80Hz	4-20mA	n/a	none	Solid-core			
H904	3.5 - 135A, 20 - 75Hz	N.O. 0.1A@30VAC/DC	3.5A or less	none	Split-core			
H934	5.5 - 155R, 20 - 75NZ	N.O. 0. TA@30VAC/DC	2.2V 01 1622	SPST, N.O.	Spin-core			

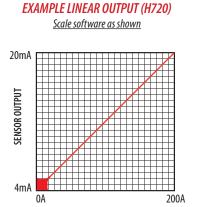
ACCESSORIES

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

800.354.8556

<u>H904/934</u>





SENSED AMPS

H934	RELAY CONTACT RATINGS
Resistive.	5A@250VAC, 30VDC
TYP	CAL COIL PERFORMANCE

Voltage	AC	DC
24V	10mA	10mA