# 349 Series - Over/Under Voltage Sensor Relay SPDT- 4PDT, 10 Amp

Under / Over voltage sensing relay incorporating 219 series internal components coupled with an electronic module. Pull-in voltage is adjustable from 85 to 135VAC for frequencies ranging from 50 to 400 hertz. Hysteresis is typically set for a 4 volt differential but can be user adjustable from 4 to 12 volts when external connections are available.

# **GENERAL SPECIFICATIONS (@ 25° C)**

#### Contacts:

Contact Configuration Contact Material Contact Rating 120 / 240VAC Resistive 28VDC Resistive Motor 120VAC Motor 240VAC Minimum Contct Load Contact Resistance, Initial Up to 4 pole Silver Alloy Gold Diffused

10 Amp / 10 Amp 10 Amp

500mW

100 milliohms max @ 6VDC

#### Coil:

Coils Available Power Consumption Input Voltage Absolute Maximum Pickup Voltage Range Dropout Voltage Range Transient Protection Reverse Polarity Protection Duty

AC 5VA +60% of nominal 4 to 12 volts over drop out 85 to 135VAC Yes N/A Continuous

# Dielectric Strength:

Across Open Contacts
Between Mutally Insulated Points Insulation Resistance

500Vrms 1500Vrms 1,000 Mohms min @ 500VDC

#### Temperature: Operating

Storage

Life Expectancy:

20 to 60°C (-4 to 140°F) -40 to 85°C (-40 to 185°F)

Electrical (full load operations) Mechanical (no load operations)

100.000 10,000,000

### Miscellaneous:

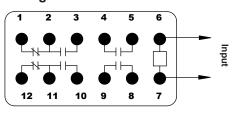
Mounting Position Mating Socket Accessories Enclosure Weight

Any 27390, 27390D Hold down clip integral to relay Clear Polycarbonate 8.6oz (244 grams)

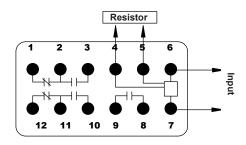


349 Wire Diagram

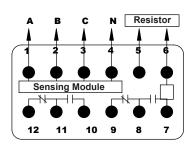
# Single Phase - 349BBX



Single Phase - 349ABX



Three Phase - 349XBX



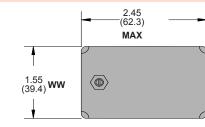


# Timer / Sensor - Voltage Sensing Relay 10 - 14 Amp

### **UL Contact Load Ratings**

# **Outline Dimensions**

Dimensions Shown in inches & (millimeters)



Contact Configuration	Current / HP	Load Voltage	Load Frequency	Type of Load
All Styles EXCEPT Code 33	10 Amp 5 Amp 10 Amp 0.5 Amp 1/6HP 1/3HP	120 VAC 240 VAC 28 VDC 125 VDC 120 VAC 240 VAC	50/60Hz 50/60Hz DC DC 50/60Hz 50/60Hz	Resistive Resistive Resistive Resistive Motor Motor
Code 33	5 Amp 2.5 Amp	120 VAC 240 VAC	50/60Hz 50/60Hz	General Purpose General Purpose

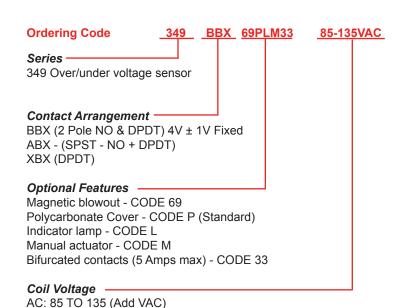
#### Additional UL Ratings for code "69" relays incorporating a blowout magnet.

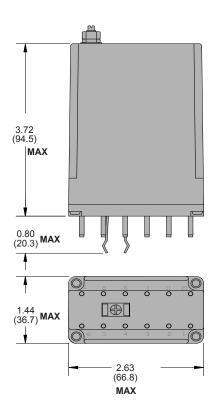
Contact Configuration	Current / HP	Load Voltage	Load Frequency	Type of Load
All Styles EXCEPT Code 33	3 Amp 1Amp	125 VDC 250 VDC	DC DC	Resistive Resistive

See the next page for additional Contact Ratings

Use Code "33" for bifurcated contacts when switching low level current below 50mA.

349 ABXP & XBXP style the differential adjustment is extremely adjustable from 4 to 12 volts





\*Externally adjustable differential 3 to 14V

