

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 3 to 14 volts when external connections are available.



GENERAL SPECIFICATIONS (@ 25° C)

Contacts:

Contact Configuration	Up to 4 pole
Contact Material	Silver Alloy Gold Diffused
Contact Rating	
120 / 240VAC Resistive	10 Amp / 10 Amp
28VDC Resistive	10 Amp
Motor 120VAC	
Motor 240VAC	
Minimum Contact Load	500mW
Contact Resistance, Initial	100 milliohms max @ 6VDC

Coil:

Coils Available	AC
Power Consumption	5VA
Input Voltage Absolute Maximum	+60% of nominal
Pickup Voltage Range	3 to 14 volts over drop out
Dropout Voltage Range	85 to 135VAC
Transient Protection	Yes
Reverse Polarity Protection	N/A
Duty	Continuous

Dielectric Strength:

Across Open Contacts	500Vrms
Between Mutually Insulated Points	1500Vrms
Insulation Resistance	1,000 Mohms min @ 500VDC

Temperature:

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

Life Expectancy:

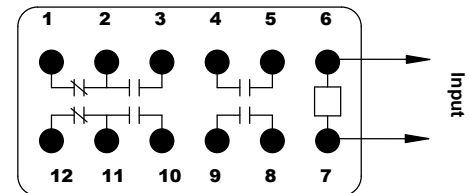
Electrical (full load operations)	100,000
Mechanical (no load operations)	10,000,000

Miscellaneous:

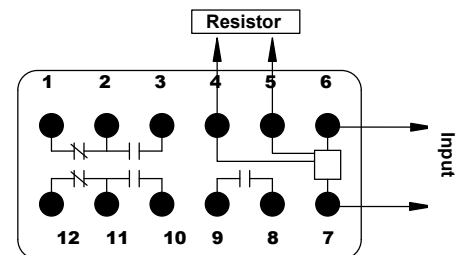
Mounting Position	Any
Mating Socket	27390, 27390D
Accessories	Hold down clip integral to relay
Enclosure	Clear Polycarbonate
Weight	8.6oz (244 grams)

349 Wire Diagram

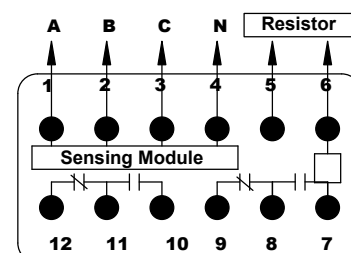
Single Phase - 349BBX



Single Phase - 349ABX



Three Phase - 349XBX

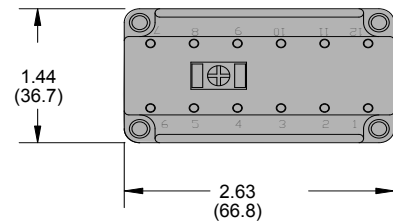
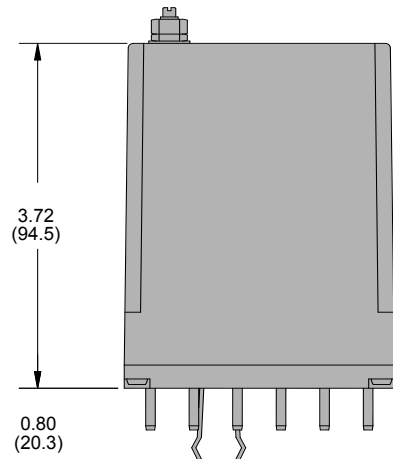
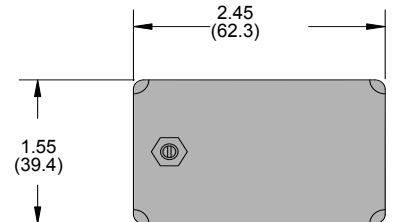


Timer / Sensor - Voltage Sensing Relay

10 - 14 Amp

Outline Dimensions

Dimensions Shown in inches & (millimeters)



*Externally adjustable differential
3 to 14V

349 Contact Load Specifications

Voltage	Make	Carry	Resistive	Inductive
120VAC	30 Amp	10 Amp	10 Amp	3 Amp
240VAC	30 Amp	10 Amp	5 Amp	1 Amp
24VDC	30 Amp	10 Amp	10 Amp	5 Amp
28VDC	30 Amp	10 Amp	10 Amp	3 Amp
125VDC	30 Amp	10 Amp	0.5 Amp	0.1 Amp

For versions with suffix "69" permanent magnet blowouts

Voltage	Make	Carry	Resistive	Inductive
125VDC (SM)	30 Amp	10 Amp	1.5 Amp	0.5 Amp
125VDC (DM)	30 Amp	10 Amp	4 Amp	1.5 Amp
250VDC (SM)	30 Amp	10 Amp	0.5 Amp	150 mAmp
250VDC (DM)	30 Amp	10 Amp	1.5 Amp	0.5 Amp

Note: SM = Single make
DM = Double make

349 ABXP & XBXP style the differential adjustment
is extremely adjustable from 3 to 14 volts

Ordering Code 349 BBX P L33- 88-135VAC

Series —————
349 Over/under voltage sensor

Contact Arrangement —————
BBX (2 Pole NO & DPDT)
4V ± 1V Fixed
ABX - (SPST - NO + DPDT)
XBX (DPDT)

Standard Features —————
Plug-in with polycarbonate cover - CODE P

Optional Features —————
Indicator lamp - CODE L
Manual actuator - CODE M
Bifurcated contacts (5 Amps max) - CODE 33
Permanent magnet, blowout - CODE 69

Coil Voltage —————
AC: 85 TO 135 (Add VAC)

Section 7