



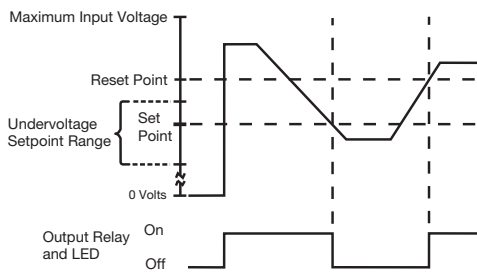
Single-Phase Undervoltage Monitors

Models 120AZ and 240AZ

FEATURES

- 100% functionally tested
- Form C relay output
- On-board Trimpot for setpoint adjustment
- Circuitry completely encapsulated
- Low cost protection against brownouts
- Compact size
- Superior transient protection
- Flame-retardant and solvent-resistant polyester thermoplastic housing
-   File #E65038

LOGIC FUNCTION DIAGRAM



The 120AZ and 240AZ voltage sensors are intended for use as protection devices for electronic equipment in the event of a brown out condition.

Operating Logic: When the input voltage to the module is greater than the Reset Point voltage, the relay will be energized and the LED will be illuminated indicating a normal line voltage condition. If, however, the input voltage drops below the Setpoint Voltage selected by the potentiometer, the relay will de-energize and the LED will turn off. The module will remain in this state as long as the input is less than Reset Point voltage.

SPECIFICATIONS

INPUT

Operating Voltage Ranges:
Model 120AZ: 0 to 132 VAC 50/60 Hz
Model 240AZ: 0 to 264 VAC 50/60 Hz

Max. Power Consumption:
Model 120AZ: 2.6VA at 132 VAC
Model 240AZ: 4.5VA at 264 VAC

CONTROL

Adjustment: On-board Trimpot

Undervoltage Setpoint Range:

Model 120AZ: 78 to 99 VAC
Model 240AZ: 156 to 99 VAC

Reset Point Voltage:

Model 120AZ: 104 VAC
Model 240AZ: 209 VAC

Repeatability: ±0.5% for fixed conditions; ±1% over temperature range

Voltage Sense Accuracy: ±2% at 25°C

Power Off Reset Time: 150 ms max.

OUTPUT

Type: Relay contacts, SPDT (1 form C)

Rating: 8 A max. resistive at 250 VAC and 30 VDC; 100 mA at 5 VDC minimum load current

Indication: Green LED; ON for normal condition

PROTECTION

Transient Voltage: 30 joule metal oxide varistor

Dielectric breakdown: 3000 Vrms terminal to mounting/1500 Vrms input to output

Insulation resistance: 100 megohms min. between terminals and case

MECHANICAL

Termination: .25" x .032" male fast-on terminals

Mounting: Surface mount with one #8 screw

Life:

Mechanical: 10,000,000 cycles min.

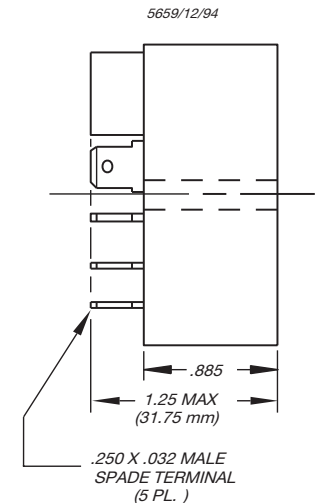
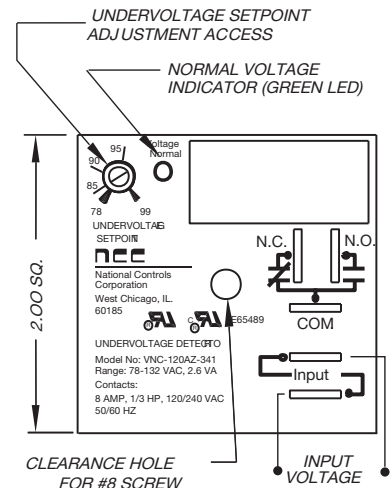
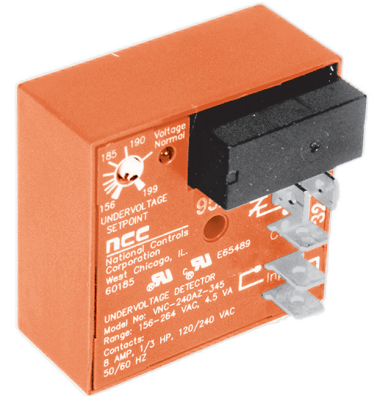
Electrical: 100,000 cycles min.

ENVIRONMENTAL

Storage temperature: -40°C to 85°C

Operating temperature: -23°C to 55°C

Humidity: 95% relative max.



ORDERING INFORMATION

| INPUT VOLTAGE RANGE | UNDERVOLTAGE SETPOINT RANGE | RESET POINT VOLTAGE | PART NUMBER |
|-----------------------|-----------------------------|---------------------|---------------|
| 0 to 132 VAC 50/60 Hz | 78 to 99 VAC | 104 VAC | VNC-120AZ-341 |
| 0 to 264 VAC 50/60 Hz | 156 to 199 VAC | 209 VAC | VNC-240AZ-345 |