

SOLLATEK DATA SHEET NO:

10910776

FREOGUARD

VOLTAGE PROTECTION FOR ALL FRIDGES, FREEZERS AND COOLERS









Description

Motors generally, and refrigeration compressors specifically, are susceptible to damage from under voltage.

reoGuard

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The motor (particularly the compressor in a refrigeration system) draws more current to compensate for the lower mains supply voltage, burning out its windings, or at least reducing its useful life.

Over-voltage is potentially damaging to all electrical and electronic equipment. One particularly damaging condition can occur when the supply returns after the mains has been off, as reinstatement of the supply is frequently accompanied by high voltage surges and transients.

Function

The FreoGuard protect equipment by disconnecting the mains supply when it goes either below or above pre-set acceptable limits. It also has an Intelligent time delay* providing added protection against frequent stops and starts.

TimeSave™

The FreoGuard has a built-in microprocessor which adds the advanced feature TimeSave.[™] TimeSave[™] means that when the mains returns to normal, the FreoGuard checks the duration of the OFF time. If the unit has been off for more than 3 minutes then it will reconnect the mains within 30 seconds rather than the standard 3 minutes. This means the Sollatek FreoGuard will give you more vital working time than any other protection unit.

Feature

- Microprocessor controlled
- Under-voltage protection by disconnection
- Over-voltage protection by disconnection
- Automatic re-connect on return of normal mains
- 3 minute intelligent start-up delay
- Uses the Sollatek TimeSave[™] feature
- No need to switch off appliances when supply fails
- Surge and spike protection
- Circuit encapsulated and hermetically sealed for protection against moisture, dust and insects
- 3 LEDs indicate the state of the mains supply
- Simple to connect with 3 industry standard 0.25" spade terminals suitable for push-on crimps
- 16 Amps or 30 Amps capacity to handle almost all single phase refrigeration applications
- Loss of neutral protection (TOV of 415 V)

LED Description

Yellow

- Red Voltage Bad Supply to Compressor OFF
 - Voltage Good Compressor OFF Wait Mode
- Green Voltage Good Supply to Compressor ON

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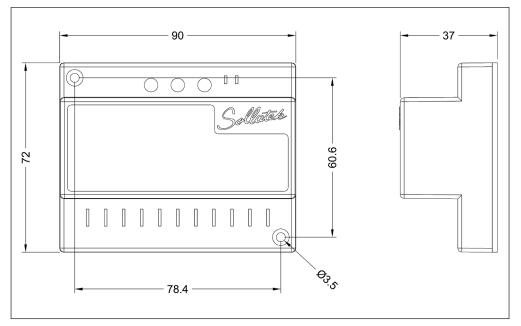
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Technical Specification

| Voltage | Nominal Voltage | 220 / 230 240 V 110 / 115 / 120 V | |
|--------------------|------------------------------|---|---------|
| | Frequency | 50/60 Hz | |
| Current | Current Rating | 16 Amps | 30 Amps |
| | Inrush Current | 70 Amps | 70 Amps |
| Voltage Protection | Voltage Limits | | |
| | @230 V | High Voltage Disconnect: 266 V | |
| | | | 1 V |
| | | | 6 V |
| | | Low Voltage Disconnect: 18 | 0 V |
| | @115 V | High Voltage Disconnect: 133 | 3 V |
| | | | |
| | | | 3 V |
| | | |) V |
| | Surge/Spike Response Time | <10 ns | |
| | Max. Spike/Surge Discharge | 6.5 kA (8/20 μs surges) | |
| | Spike Protection | 160 J | |
| | Temporary Over Voltage (TOV) | 415 V | |
| General | Start-up Delay | 3 minutes | |
| | TimeSave Delay | 10 - 30 seconds | |
| | LEDs | 3 x Status LEDs | |
| | | Red: Output Off ; Yellow: Wait Mode ; Green: Output on | |
| | Production Test Feature | Removes the 3 minute start-up delay for quicker and convenient testing | |
| Environmental | Protection | Electronics sealed for protection against water, humidity, dust and insects | |
| Mechanical | Mounting | Double sided adhesive pad or Screw mounting base | |
| | Unit Dimensions | 90 x 71 x 31 mm | |
| | Unit Weight | 400 g | |
| Shipping | Carton Quantity | 50 units | |
| | Packing Dimensions | 510 x 540 x 140 mm | |
| | Carton Weight | 20 kg | |

Dimensional Drawing



| Product Code | Description |
|--------------|--|
| 92344500 | FreoGuard 16A 180/186 to 260/266V RoHS |
| 92344400 | FreoGuard 30A 115V uP Controller |
| 92344300 | FreoGuard 30A 180/186 to 260/266V RoHS |

For more information on the Sollatek product range visit **www.sollatek.com**



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