

### Description and Applications

REE-2004 solid-state relays are rugged, single-phase devices with 25 amp ratings (with proper heat sinking). They accept a DC logic control input and provide precise zero-crossing on-off control in a panel mounted package.

Rugged internal snubber circuitry attenuates most industrial noise. The high dv/dt and “blocking voltage” provide excellent immunity to voltage spikes. A new, fast-responding input circuit allows the relay to survive high-energy, non-repetitive power-line surges and continue normal operation.

Relay status can be seen via the built-in LED status indicator under the clear plastic safety cover.

A current-limited DC input (4 to 32 VDC) allows a wider selection of control devices and simplifies integration with PLCs and other externally powered circuits.

The REE-2004 provides an effective replacement for electromechanical contactors. An excellent application for this relay is switching electric resistance heating elements. The fast switching reduces the thermal cycling of the heating elements resulting in longer element life. In addition, the elimination of mechanical contacts reduces both maintenance costs and downtime.

No heat sink is required for loads up to 4 amperes.

**Loads greater than 4 amperes require a heat sink and thermal pad.** See the Accessories section.



### Features

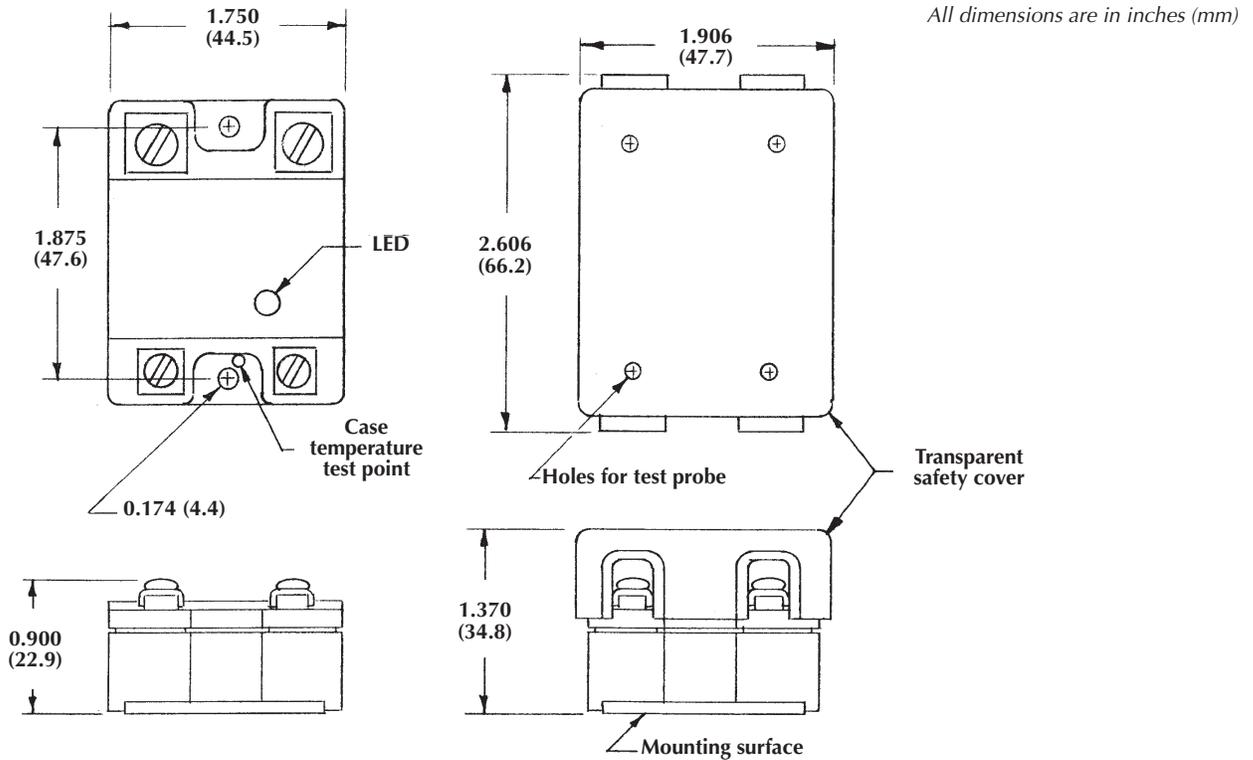
- ◆ Precise zero crossing for fast switching
- ◆ Optically isolated with 4000 V<sub>rms</sub> isolation
- ◆ Relay status LED indicator
- ◆ Superior surge survival
- ◆ Clear safety cover with test probe holes
- ◆ No mechanical contacts for reduced costs and downtime
- ◆ UL recognized, CSA certified, and CE compliant

### Accessories\*

HPO-4611	Heat Sink (2.36" W x 3.40" L x 2.80" H)
HPO-4612	Thermal Pad

\*Loads greater than 4 amperes **require** a heat sink and thermal pad.

## Details



## Specifications

### Output Voltage Rating

24 VAC to 330 VAC

### Output Overvoltage

800 V peak

### Control Input

Min. Turn-on: 4 V @ 5.4 mA  
 Max. Turn-on: 32 V @ 10 mA  
 Max. Turn-off: 1 VDC  
 Impedance: 1500 ohms

### Input Reverse Voltage Protection

-75 VDC

### Connections

Screw terminals for 12 to 22 AWG copper inputs/outputs

### Approvals

UL recognized  
 CSA certified  
 CE compliant

### Weight

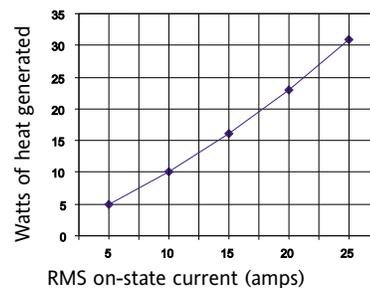
2 oz. (57 grams)

### Temperature Limits

Operating: 32 to 104° F (0 to 40° C)  
 Shipping: -40 to 140° F (-40 to 60° C)

NOTE: These specifications do not all apply to the 10 A max. REE-2004-10, which is no longer available.

Max. Recommended Resistive Heater Loads		
@ 120 VAC	@ 240 VAC	@ 480 VAC
2400 W	4800 W	9600 W
Max. Recommended Single Phase Motor Control		
@ 120 VAC	@ 240 VAC	@ 480 VAC
1/3 hp	1 hp	2 hp



Derating Curve

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