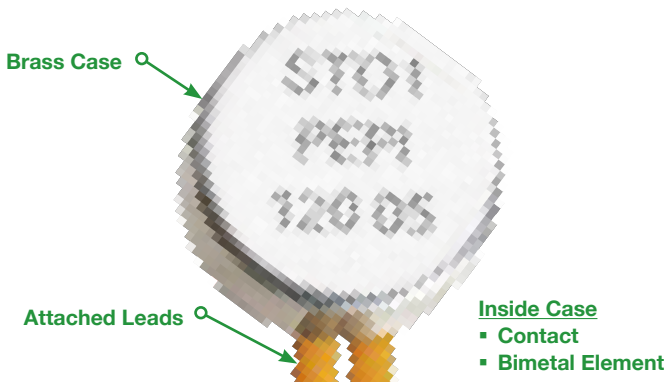




Miniaturized circular shape helps economical thermal protector fit into tight spaces & motor windings.

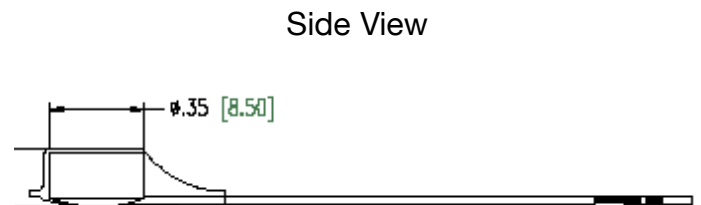
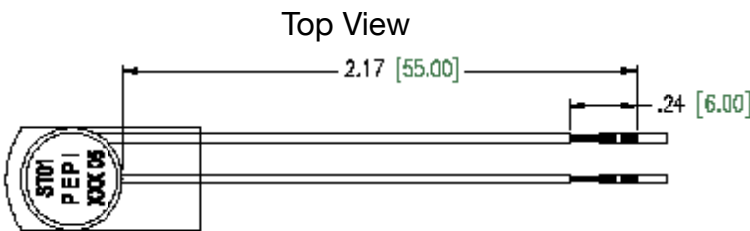
# MODEL STO SERIES

A thermal protector offering both overcharge and short-circuit protection. The round, thin profile design is available in a variety of configurations to meet different application requirements. The ST01 is especially well suited to motor, transformer and lighting applications up to 5 amps, 250 VAC.



The Model STO Series thermal protectors are normally in the closed position allowing electricity to flow through the circuit. When the circuit load exceeds a preset temperature, the top side of the bimetal element shortens forcing the element to rise and open the circuit. When the circuit cools, the bimetal returns to its normal position closing the circuit and allowing electricity to once again flow.

Feature	Benefit
Round, exceptionally thin case	Almost always fits exceptionally well into tight spaces and coil windings.
Conductive bimetal construction	Maximizes current sensitivity under short circuit conditions.
Brass case	Provides good thermal conductivity.
Snap action	Quick make / quick break switching action opens circuit upon reaching calibrated temperature.
Case electrically live	Device is more sensitive to ambient temperatures that could damage operation.
Preset calibration temperatures	Maximizes accuracy. Calibration cannot be reset in field.
Standard #22 ga. silicone rubber lead wires	Standard lead wire availability simplifies specification. Other materials are available to meet specific application needs.



Metric dimensions are in MM (shown in green)

*We come through when the heat is on®*

# MODEL ST01

## Contact Ratings

5 amps / 250 volts AC inductive

\*Please consult our Sales Engineers for suggested contact ratings when applied to DC type loads.

## Calibration Temperature Range

Nominal Calibration Temperatures

60°C - 160°C

Reset temperature

Typically 25°-50°C below opening temperature

## Customization Options

### Effect

Change bimetallic elements

Increase or decrease sensitivity to current

Specify different lead wires

Type and length to more precisely meet application and production needs

Select calibration temperature

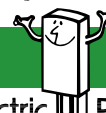
Match application needs

Add sleeves to case

Isolate case from electrical current

## Approvals

The PEPI® ST01 has been evaluated under the components programs by UL and TUV. Please contact us for further details.



# MODEL STO1

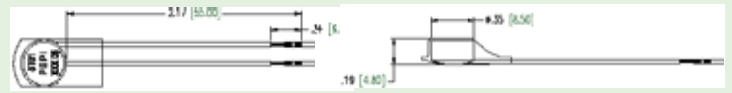
## PEPI® MODEL STO1 STANDARD MODELS:

Due to the wide acceptance of the STO1 we've standardized a number of models for specific application needs.

### With Shrink Cap Insulation

Isolate case from ambient temperatures

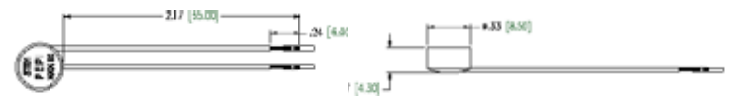
U1



### Without Cap Insulation

Case is electrically alive

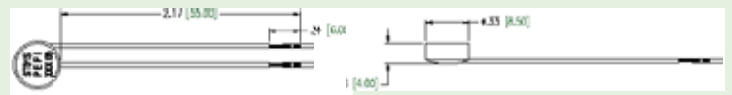
U2



### Super-Thin

.16 profile fits into exceptionally tight spaces

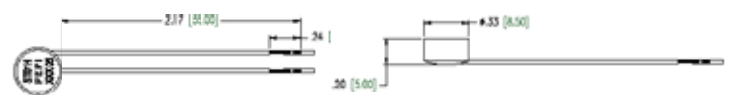
U2



### Self-Hold

Provides additional level of protection. An internal heat source holds the circuit open until power is disconnected

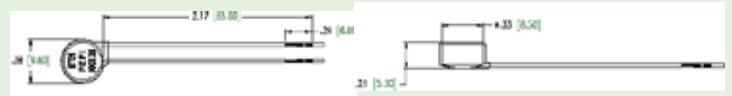
U2



### With Epoxy Cover

Protect internal components from environmental concerns

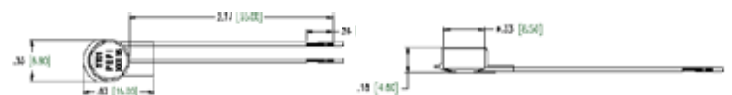
U4



### With Nomex Shrink Wrap Cap

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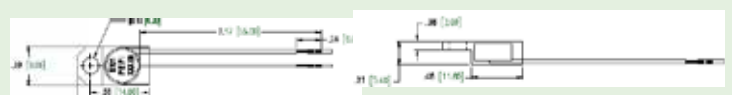
U5



### PBT Insulating Case

Ultimate protection from environmental influences that could impede efficient operation

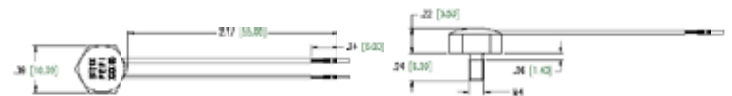
U6



### With M4 Threaded Case

Provides mounting flexibility

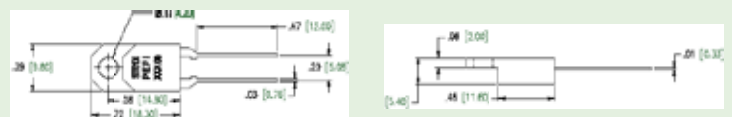
U7



### Housing of PBT, Leadframe Leads

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U8



# MODEL STO6

## Contact Ratings

10 amps / 250 VAC inductive

\*Please consult our Sales Engineers for suggested contact ratings when applied to DC type loads.

## Calibration Temperature Range

Nominal Calibration Temperatures

60°C - 160°C

Reset temperature

Typically 25°-50°C below opening temperature

## Customization Options

## Effect

Change bimetallic elements

Increase or decrease sensitivity to current

Specify different lead wires

Type and length to more precisely meet application and production needs

Select calibration temperature

Match application needs

Add sleeves to case

Isolate case from electrical current

## Approvals

The PEPI® STO6 has been evaluated under the components programs by UL and TUV. Please contact us for further details.

## PEPI® Model STO6 Standard Models

The PEPI® STO6 has been evaluated under the components programs by UL and TUV. Please contact us for further details.

