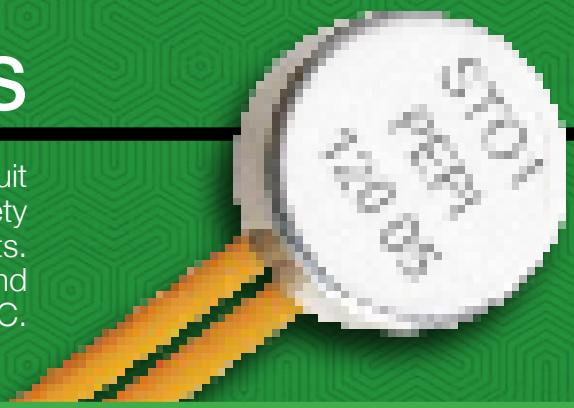
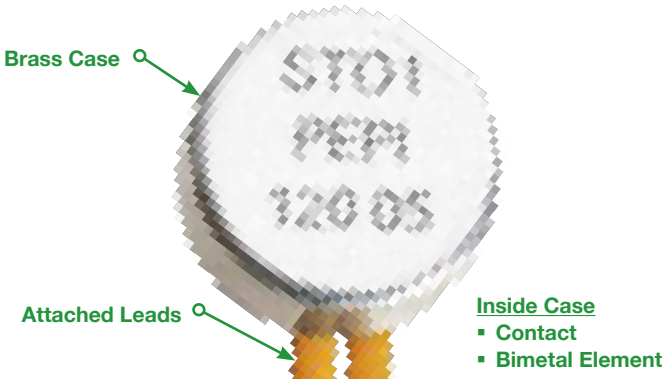
Miniaturized circular shape helps economical thermal protector fit into tight spaces & motor windings.

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.

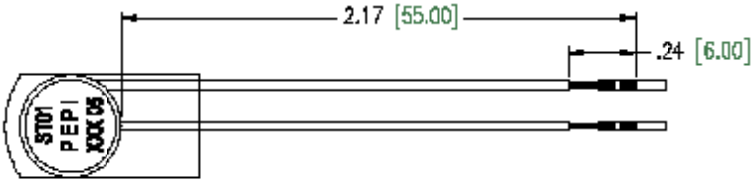




The Model STO Series thermal protectors are normally in the closed position allowing electricity to flow through the circuit. When the circuit load exceeds a preset temperature, the top side of the bimetal element shortens forcing the element to rise and open the circuit. When the circuit cools, the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

Top View



Side View

Metric dimensions are in MM (shown in green)

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Pepi®
Portage Electric Products, Inc.

MODEL STO1

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.

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Portage Electric Products, Inc.

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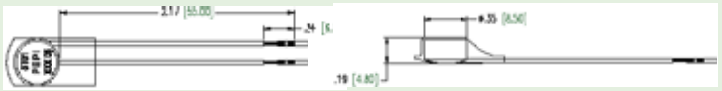
MODEL STO1

PEPI® MODEL STO1 STANDARD MODELS:

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

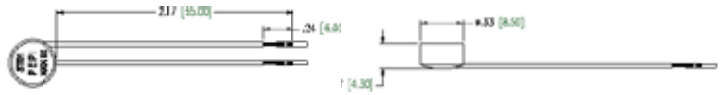
With Shrink Cap Insulation
Isolate case from ambient temperatures

U1



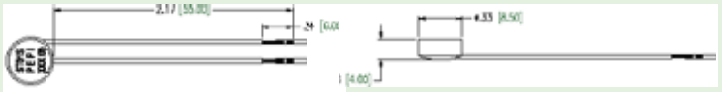
Without Cap Insulation
Case is electrically alive

U2



Super-Thin
.16 profile fits into exceptionally tight spaces

U2

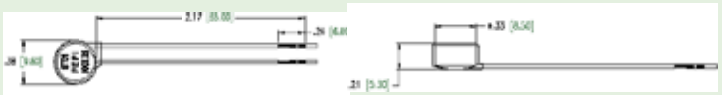


Self-Hold
Provides additional level of protection. An internal heat source holds the circuit open until power is disconnected

U2

With Epoxy Cover
Protect internal components from environmental concerns

U4



With Nomex Shrink Wrap Cap
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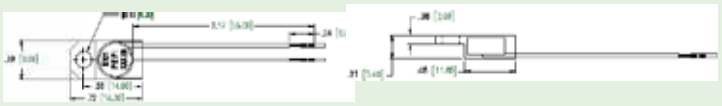
U5

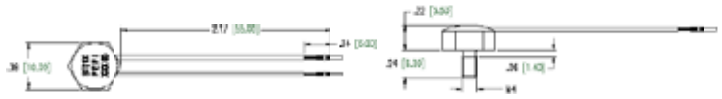
PBT Insulating Case
Ultimate protection from environmental influences that could impede efficient operation

U6



With M4 Threaded Case
Provides mounting flexibility

U7



Housing of PBT, Leadframe Leads
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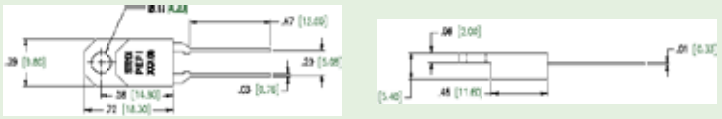
U8



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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

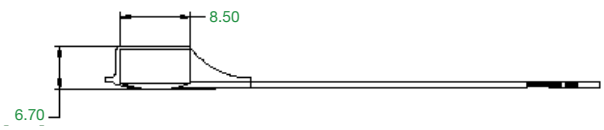
Customization Options	Effect
Change bimetallic elements	Increase or decrease sensitivity to current
Specify different lead wires	Type and length to more precisely meet application and production needs
Select calibration temperature	Match application needs
Add sleeves to case	Isolate case from electrical current

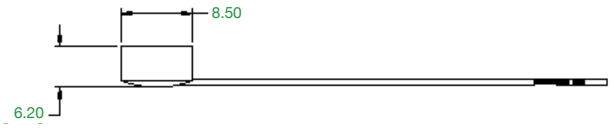
Approvals

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.





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