TC100 Series Battery Protectors

FEATURES

- Isolated bi-metal construction
- Miniature size
- Electrically insulated housing
- Snap Action
- Normally closed, contacts open on temperature rise.
- Automatic reset
- Long cycle Life
- Current and temperature sensitivity for maximum design flexibility
- Available with Nickel Strip leads or wire leads to your specifications

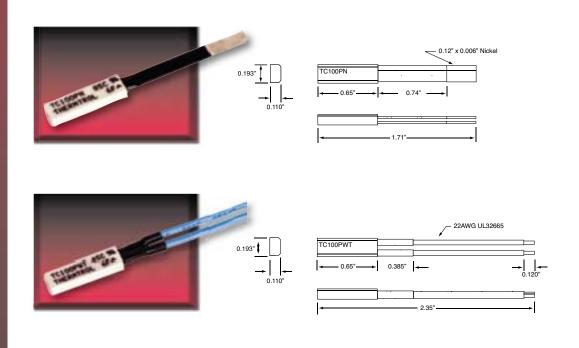
APPLICATIONS

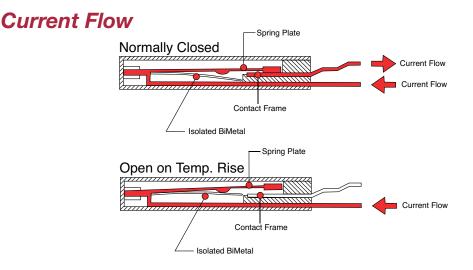
Battery pack overcharge and limited short circuit protection in:

- Portable tools
- Notebook computers.
- Rechargeable battery packs

TC100 Series

Thermtrol's TC100 Series is designed specifically for over temperature and short circuit protection in battery pack applications. The TC100 functions by detecting elevated heat and over-current in the battery pack and breaks the electrical circuit at the TC100's pre-selected temperature set point. With a variety of termination styles, internal resistivity values for varying the current sensitivity, and a large range of nominal temperature settings, the TC100 is the device for your battery pack protection requirements. In applications where a one-shot thermal cutoff fuse or multiple redundancies are required in addition to a bimetal limit protector, please ask Thermtrol about supplying your entire system protection needs.





www.thermtrol.com E-mail: sales@thermtrol.com

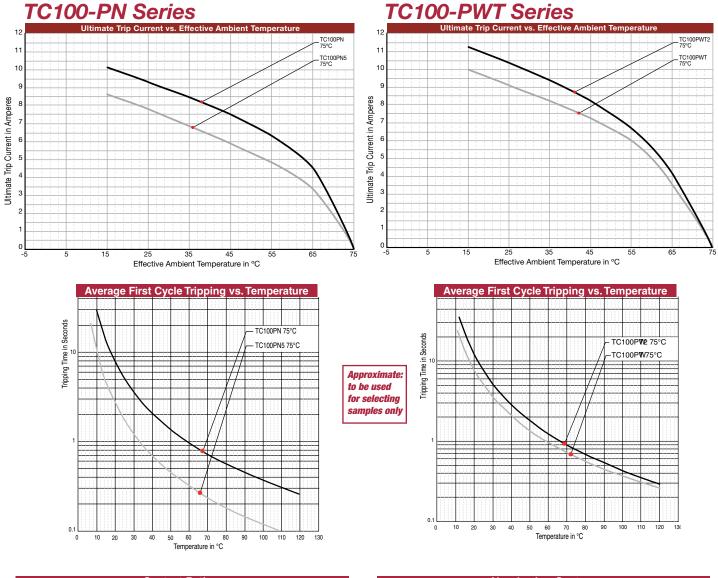
8914 Pleasantwood Ave., NW • P.O. Box 2501 • North Canton, OH 44720 • (330) 497-4148 • Fax (330) 497-4189 IN ASIA: Thermtrol Asia, Ltd. • Hong Kong • China • (852) 2873-3788 • Fax (852) 2873-3718 • chinasales@thermtrol.com

Thermtrol Corporation

Performance Curves

TC100 Performance is dependent upon the movable arm material, the temperature setting, and the lead material. The graphs below show representative devices and illustrate the relative characteristics of various configurations.

Model#	Contact Frame Material	Spring Plate Material	Termination	Overall Resistance
PN	Phosphorus Bronze	Beryllium Copper	Nickel Plate Lead	Low
PN5	Phosphorus Bronze	Titanium Copper	Nickel Plate lead	High
PWT	Phosphorus Bronze	Beryllium Copper	Lead Wire	Low
PWT2	Brass	Beryllium Copper	Lead Wire	High



Contact Ratings		
8A@18Vdc, 3A@24vDC		
Maximum Breaking Current: 100A 12Vdc		
Minimum Electrical Current: 10mA 5Vdc		
Specifications		
Open Temperature: 45°C to 105°C ± 5°C		

Open Temperature: 45°C to 105°C ± 5°C		
Differential: 6°C		
UL Approvals		
UL: E19340		

