

File E169910
Project 98RT608

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REPORT

on

COMPONENT - PROTECTORS, SUPPLEMENTARY

TEXAS INSTRUMENTS INC.
Dallas, TX

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DESCRIPTION

PRODUCT COVERED:

Component - Supplementary protectors, model TPS2014, may be followed by any alphanumeric suffixes.

GENERAL:

These devices are power distribution switches which limit the output current to a safe level when the output lead exceeds the current-limit threshold or a short is present. These devices are intended to be used on the secondary side of a isolating transformer or battery (maximum power levels of 250 VA) to provide a means of supplementary protection.

ELECTRICAL RATINGS:

Model No.	Input Voltage Range, V dc	Operational Current Rating, A	Overcurrent Protection Current Rating, A
TPS2014	4 - 5.5	0.6	5

MARKING:

The manufacturer's name, trade name or trademark, catalog number, and Recognized Component Mark . Due to the small size of the device, all markings mentioned above may appear on the smallest package or reel. Electrical ratings are optional.

*

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE'S USE):

Use - For use only in products where the acceptability of the combination has been determined by Underwriters Laboratories Inc.

Conditions Of Acceptability -

- 1) These devices are integrated circuits and electrical spacings within the device are not specified.
- 2) These devices are entirely electronic in nature and have no means for manual operation or reset.
- 3) The terminals of these devices are for factory wiring only (8 pin connector intended to be mounted on printed wiring board).

- 4) These devices have been investigated as electronic overcurrent protective devices in accordance with the requirements in sub-clause 2.11 and Table 9 of UL 1950. As a result, use is permitted only on secondary supply circuits originating from either an isolating transformer or battery with maximum power levels of 250 VA max and 250 A.

Use on secondary supply circuits with a higher power capability (Table 8) requires additional evaluation for reliability, such as requirements in the Standard for Safety-Related Controls Employing Solid-State Controls, UL 991.

- 5) These devices are intended to operate within the manufacturer's specified ratings and the criteria contained in sub-clause 2.11 of UL 1950. These devices limit currents to values less than the overcurrent protection rating of 5 amperes.
- 6) These devices have only been evaluated for supplementary overcurrent protection of secondary circuits supplied by the load side of a transformer or battery, and have not been evaluated for branch-circuit protection.
- 7) These devices have been subjected to environmental conditionings with respect to the following conditions (per Supplement SD of the Standard for Telephone Equipment, UL 1459):

Shipping and Storage #
Thermal Cycling
Endurance
Abnormal
Temperature Range: -30 to +70°C

- 8) These devices have not been subjected Tests for Telecom applications and their suitability for connection to telecommunication networks with outside plant connections should be determined in the end-use.
- 9) These devices were evaluated with respect to continuous current operation at the following current levels:

	<u>Model No.</u>	<u>Continuous Current Rating, A</u>
*	TPS2014	0.6

CONSTRUCTION DETAILS:

General - Refer to Ill. 1 for overall view and dimensional information.

*Spacings - No spacing requirements are specified.

Tolerance - Unless otherwise specified, all dimensions are nominal.

Corrosion Protection - All parts are of corrosion resistant material or are suitably plated to resist corrosion.

Current Carrying Parts - Stainless steel, silver, gold, nickel, aluminum, copper or copper alloy. May be plated with tin, lead, silver or gold.

Insulated Housing - R/C (QMFZ2), high temperature and pressure molding, rated min. 130°C, min. V-2.

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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