

THOR SYSTEMS, INC.

SURGE APPS SA-047: UL 1449 4TH EDITION UPDATE

(Guidelines and application tools to promote improved Power Quality)

3621 Saunders Avenue Richmond, VA 23227-4354

Ref. Standards:

UL 1449 4th Ed. UL 1283 5th Ed.

C62.41.1: 2002 IEEE

C62.41.2: 2002 IEEE C62.45: 2002 IEEE

C62.62: 2010 IEEE

C62.72: 2007 IEEE NEMA NEC 2014

NFPA 70

FIPS 94 MIL-STD 220A

THOR SYSTEMS PRODUCTS UL 1449 4th Edition Surge Protection

THOR SYSTEMS is pleased to announce that all of its Surge Protective Device (SPD) products fully meet the new American National Standards Institute/Underwriters Laboratories' Standard for Surge Protective Devices (ANSI/UL 1449 – 2015). The new 4th Edition standard issued August 20, 2014, which includes revisions through March 26, 2015, is now in effect except for the new sections added to the standard covering Photovoltaic/DC devices. These sections have an effective date of December 30, 2017.

The main changes from the 3rd Edition standard to the new 4th Edition concern component assemblies and individual components as well as the new addition of Photovoltaic/DC devices – Supplement SA (sections covering the Scope, Definitions, Type 5 SPD Surge Testing, Type 4 Component Assembly Surge Testing, Metal Oxide Varistor Voltage, Nominal Varistor Voltage,

Ratings and Markings) are all included in the changes.





The section of the 4th Edition standard falling under the December 30, 2017, effective date is Supplement SA – Photovoltaic (PV) SPDs.

THOR SYSTEMS was informed of its new 4th Edition compliance effective April 15, 2015.

All Surge Protective Device products covered under THOR SYSTEMS' UL E311522 file – which includes our Series TSr, TSn, and TSac/Compact (pictured at the left) – were deemed compliant with the new 4th Edition standard.

THOR SYSTEMS has also submitted its Residential/Light Commercial SPD for updated testing under the new 4th Edition standard. This product received the Authorization to Apply the UL Mark under the new standard on August 21, 2015.

THOR SYSTEMS, INC. offers a complete product line to meet our customers' needs and now our suppression devices are fully listed under the latest ANSI/UL 1449 4th Edition standard. Our products range from service entrances of large facilities to primary and secondary building distribution systems. These systems can include large

computer rooms and data processing centers as well as manufacturing process controls, small business computer applications and individual residential surge protection

We would like to become an information resource for your surge protection applications. THOR SYSTEMS offers products and services that provide protection from the more *obvious external* to the more *frequent internal* transient voltage sources.

Ref. Documents:

SA-001 Why THOR SYSTEMS SPDs
SA-002 Bottom Feed SPDs
SA-004 Site Risk Assessment/Sizing SPD
SA-005 Modular vs. Non-modular
AG-09 Features/Benefits
SA-003 Case Study/Mfg.

Our consistent focus on improved product performance and increased value to the customer is conveyed by our products' transparent cover enclosures, showcasing the TILE Architecture, Innovative Design Configurations, and per Mode Status Indication.

Should you have any questions, please feel free to contact us (804.355.1100) or visit our Web site, www.ThorSystems.us.