

AVAILABLE MODELS

Nominal Voltage	Enclosure Type	Model Number
120Vac (2W + G)	NEMA 1	TSnc050Wz 1S1 P000
	NEMA 4X	TSnc050Wz 1S1 P001
120/240Vac (2W + G)	NEMA 1	TSnc050Wz 2S1 P000
	NEMA 4X	TSnc050Wz 2S1 P001

GENERAL SPECIFICATIONS

Application	Residential AC Panel SPD
Connection Method	Fig. A - Parallel
Technology	Fig. B - Thermally Protected Metal Oxide Varistor (TpMOV)
Protection Modes	L-N & N-G
Modular	No
Agency	UL1449 5th Edition
Warranty	5 Years

ELECTRICAL SPECIFICATIONS

Nominal Voltage	2 Options
Max. Operating Voltage (MCOV)	2 Options
Max. Surge Current	50kA
Max. Line Current (OCOD Size)	30A
Nom. Discharge Current (In)	20kA
Frequency	50 - 60Hz
Operating Temperature	-40°C to 60°C

MECHANICAL SPECIFICATIONS

Termination Method	Wire Leads (#10AWG MTW)
Disconnect Indication	Red LED
Housing	Polycarbonate NEMA 1 (IP10) Polycarbonate NEMA 4X (IP65)
Dimensions	2 Options (Fig. C)
Mounting	Wall Mount
Outdoor Use	2 options

LIMITED SUPPRESSION WARRANTIES

THOR SYSTEMS, INC. warrants to the original purchaser/end user that this Surge Protective Device (SPD/TVSS), if purchased and used solely in the continental United States, will be free from defects in materials and workmanship for a period of five (5) years from the date of purchase. During such limited warranty period, THOR SYSTEMS will not charge the original purchaser/end user to repair or replace the product, or a part or component therein (with the same or a similar product, part or component) at THOR SYSTEMS' option, any product, part or component which proves to have a defect in materials or workmanship, provided the product, part or component is returned prepaid, at the cost and expense of the purchaser/end user, to THOR SYSTEMS, INC.'S manufacturing facility in Richmond, Virginia, within the limited warranty period. All costs and expenses incurred in connection with the removal, shipment, handling and reinstallation of the repair or replaced product, part or component, as well as diagnosis, shall be borne by the purchaser/end user. A Return Material Authorization (RMA) number must be obtained from the Company's customer service department before returning any products.

At the request of the purchaser/end user, and at the cost and expense of the purchaser/end user (at our currently published rates, portal-to-portal), and with reasonable expectation of payment, THOR SYSTEMS, INC. will: (a) provide assistance in the diagnosis, removal, and reinstallation of a repaired or replaced product, part or component; (b) undertake to repair or replace any product, part or component at a location other than THOR SYSTEMS' manufacturing facility in Richmond, Virginia.

The foregoing limited warranties shall not apply unless a Warranty Registration Card is completed and returned via mail, fax, or email to THOR SYSTEMS, INC. within thirty (30) days of the date of purchase. The foregoing limited warranties shall not apply if the product, or any parts or components, are modified, tampered with, misused, misapplied, or subjected to abnormal working conditions (including, but not limited to, water or other overexposure). The limited warranty for repaired product or replacement product, parts or components will be only the remaining portion of the original limited warranty.

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Series TSn Residential

Operation Manual



** Image is not model specific **

THOR SYSTEMS continuously strives to improve its products. Occasionally there may be changes in features or optional equipment. All information contained in this printed material is based on the latest product information available at the time of printing. THOR SYSTEMS reserves the right to implement changes, without notice, in specifications and equipment services.

Fig. A - CONNECTION METHOD

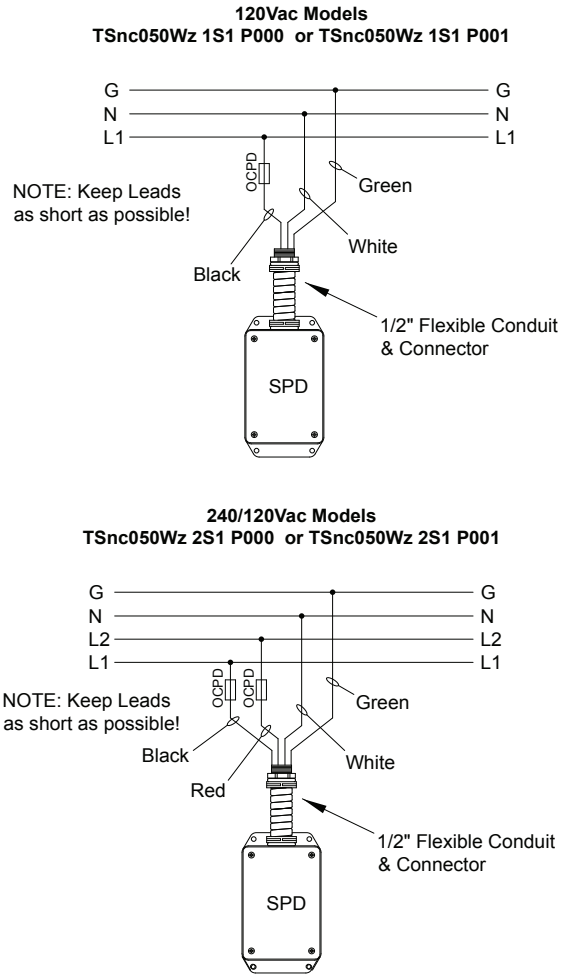


Fig. B - TECHNOLOGY / SCHEMATIC

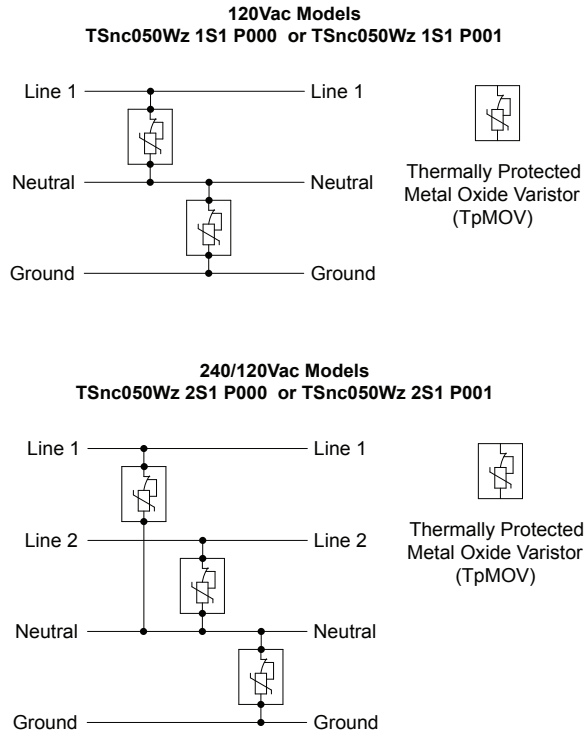
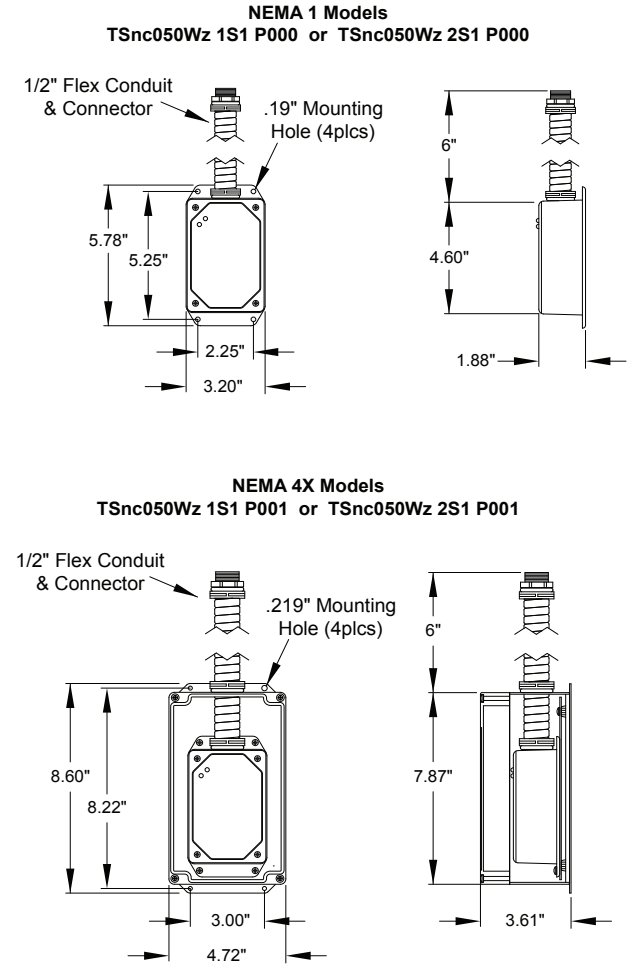


Fig. C - DIMENSIONS



SPD FAILURE INDICATION

During normal operation, the SPDs Green LED is illuminated and the Red LED is not. Upon a SPD failure, the Red LED will illuminate.

