# AVAILABLE MODEL NUMBERS (Connection Figure) Voltage Configuration Model # 120Vac (2W + G) TSai 040R 150 1P11 277Vac (2W + G) TSai 040R 320 1P11

ELECTRICAL SPECIFICATIONS	
Max. Surge Current	40kA
Max. Line Current (OCOD Size)	30A
Nom. Discharge Current (In)	20kA
Frequency	50 - 60Hz
Operating Temperature	-40°C to 60°C
Form C Contact	Yes (See Fig. D)

MECHANICAL SPECIFICATIONS	
Termination Method	Screw Terminal (#8 - #12AWG)
Disconnect Indication	Visual Indicator & Form C Contact
Housing	Themoplastic NEMA 2 (IP20)
Dimensions	See Fig. C
Mounting	35mm Symmetrical DIN Rail
Outdoor Use	No
ROHs Compliant	Yes

### 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.

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# **Series TSai**

# **Operation Manual**

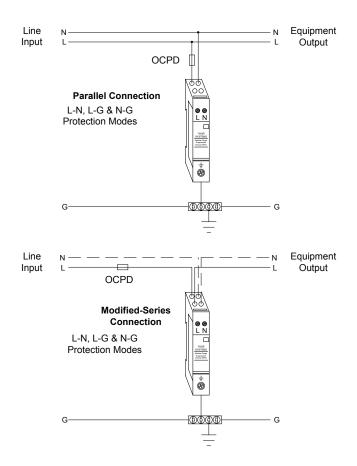


\*\* Image is not model specific \*\*

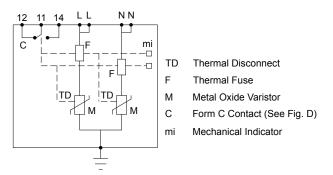
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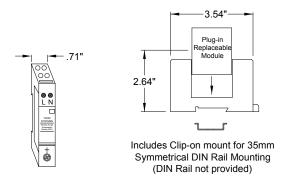
# Fig. A\_\_ - CONNECTION METHOD



# Fig. B - TECHNOLOGY / SCHEMATIC

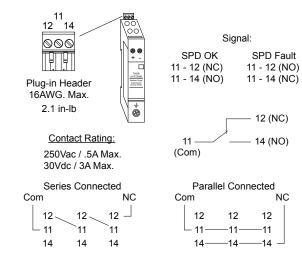


# Fig. C - DIMENSIONS

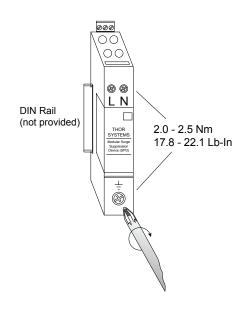


## FIG. D - FORM C CONTACT

Remote Signal for disconnect indication



### INSTALLATION



# **SPD FAILURE INDICATION**

If the SPD fails, the Fault Indictator Window turn RED, and the FORM C Contact (See Fig. D) will change state. Service Interruption will NOT be experienced.

