DATASHEET

THOMESURGE

Residential Surge Protection Device

01

Features:

- 36 kA per Phase
- 3-year, $25,000 Connected Equipment Warranty
- UL 1449 Listed
- 10 kA I-nominal Rating
- 200 kA SCCR
- Meets NEC 2020 Requirements

01 THOMESURGE residential surge protection devlice

Product Specifications

General Specifications	
Maximum Surge Current	36 kA per Phase
UL Type Designation	Type 1
UL 1449 I-nominal Rating	10 kA
UL 1449 Short Circuit Current Rating	65kA, tested to 200kA

Design Specifications
Custom MOV design for High Energy Handling in Category C locations
Thermally Protected MOVs
External Parallel Connected for Mounting next to Electrical Gear
Reduced Mode of Protection (L1-N, L2-N)

Diagnostic & Status Monitoring Specifications
LED Protection Status Monitoring (Single LED Standard)

Enclosure
Polycarbonate 4.25” × 2.41” × 2.75”
Lid ultrasonically sealed
NEMA 4X
1/2 inch NPT Side Mount Nipple

Filtering
NO

Technical data	
Humidity Range	0 – 95% non-condensing
Operating Frequency	50 – 60 Hz
Operating Temperature	–35°C to +85°C
Typical Connection	18” #14 AWG (pre-wired pig tails)

UL 1449 Performance Data						
System Voltage	L-N	L-G	N-G	L-L	SCCR	MCOV
240/120V Split Ø	700	–	–	1200	200 kA	180

Standards Compliance & Certifications

UL 1449 5th Edition: 2021, cULus, (UL File: VZCA.E316468), ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, NEC Article 285
ISO 9001: 2014 Quality Management System, ISO 17025:2007 Laboratory Certification (UL DAP Program) Compliance with RoHS, REACH & California Prop 65.
100% Quality Tested prior to shipping

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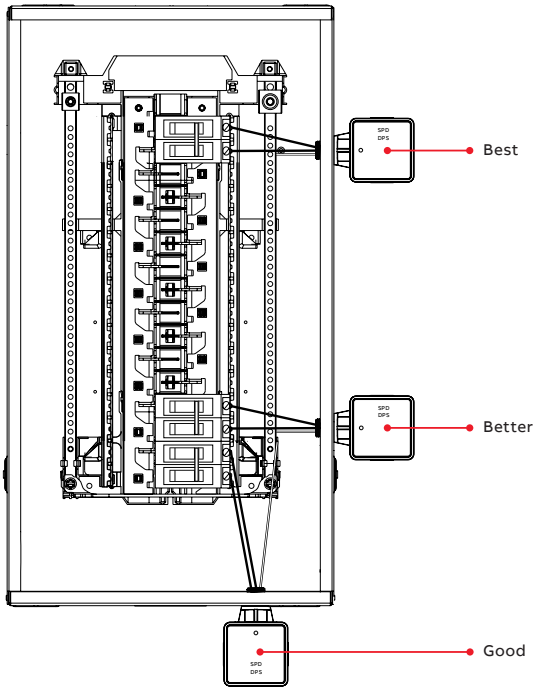
Installation Recommendations:

- A 2-pole, 20-amp breaker is required for installation
- The breaker can either be dedicated to the surge device or shared with another circuit[1]
- Install the breaker and surge device closest to the incoming line for best results
- Ensure the leads from the surge device to the breaker are as short as possible.

[1]GE/ABB breakers have multi-rated lugs. For best surge performance, use a dedicated breaker.

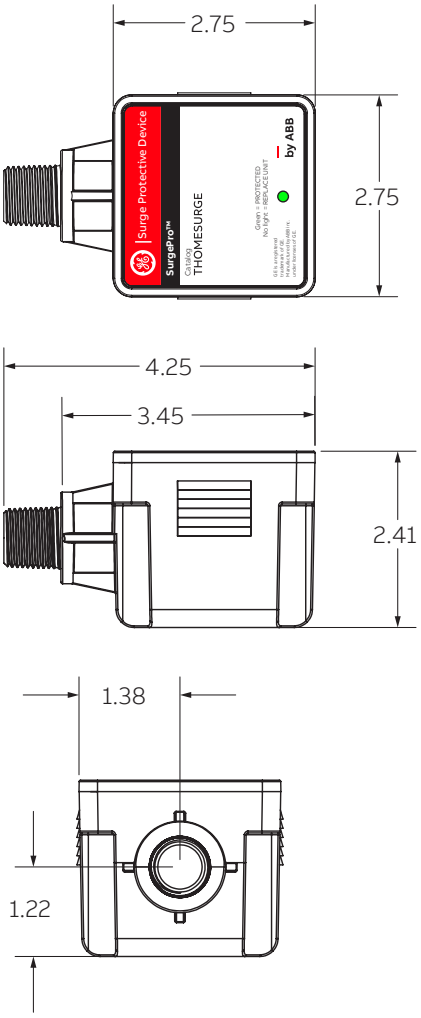
Optimal Surge Placement



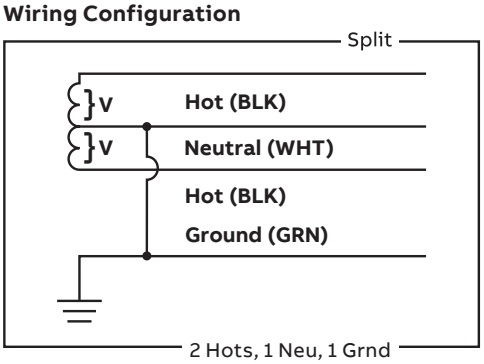
Dimensions and mechanical specifications

Dimensions	4.25” × 2.41” × 2.75”
Weight	0.46 lbs
Enclosure Type	Polycarbonate NEMA 4X
Installation Type	Indoor / Outdoor
Mounting Method	Flange / Through-hole

Product Diagram



Wiring Configuration



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