

Introduction

Recommended installation locations are primary and secondary distribution and point of use levels. Designed for distribution and point of use locations, but rated for service entrance, the Tranquell™ ME with enhanced thermal protection has been third-party tested to ANSI/IEEE C3 10kA 8x20μs impulses. The Tranquell™ ME Series is designed for rigorous duty and long life, as evidenced in our outstanding minimum repetitive surge current capacity test results.

These Surge Protective Device (SPD) models connect directly to GE A-Series panelboard bus bars without adding width or depth to the panel enclosure. Third-party tested per IEEE C62.62 and NEMA LS-1 for the rated 8x20μs surge current, per mode with fusing included. Mounted to the bus bars, a breaker feeder is not required or used. This design allows for maximum protection. Ratings are available from 65kA to 100kA per mode (130kA to 200kA per phase).

GE engineers design and build surge protective devices in our state-of-the-art lab and production facilities. Extensive testing is performed at GE and third-party test labs across North America.

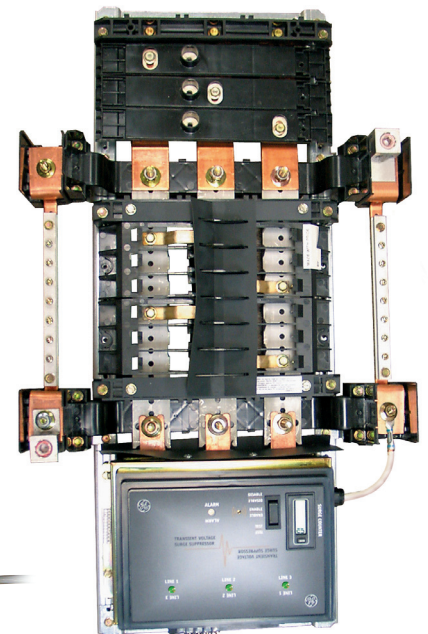
Features and Benefits

- > UL 1449 3rd Edition, Type 1 or Type 2
- > UL 96A Lightning Protection Systems
- > Optional UL 1283 noise filtering. The SPD device EMI-RFI noise rejection or attenuation value is measured in accordance with the procedures outlined in NEMA LS 1-1992 (R2000)/MIL-STD-220B. Attenuation is -50db minimum @ 100kHz.
- > UL tested to 100,000 amperes symmetrical withstand
- > Device is capable of surviving a minimum of 5,000 category C3 impulses (10kA, 20kV) per mode
- > Thermally protected MOVs eliminate the need for additional upstream fuses
- > NO/NC Form C dry type contacts for remote monitoring
- > Third-party tested to maximum surge rating as a complete assembly
- > 10 modes of protection (L-N, L-G, N-G, L-L)
- > Green status indicating lights, red service light
- > Audible alarm with test/disable feature
- > Optional LCD surge counter
- > Factory installed in GE A-Series Panelboards, UL 67 listed
- > 5 year limited warranty (standard), 10 year limited warranty (optional)

Integrated Tranquell™ ME

Surge Protective Device (SPD)
with Enhanced Thermal Protection

Direct Bus Connected Within
GE A-Series™ Panelboards



Typical GE A-Series™
Branch Panel Interior

Technical Specifications

Operating Frequency

50/60 Hz

Connection

Direct Bus, Parallel Connected

Operating Temperature

-40° F to 149° F (-40° C to +65° C)

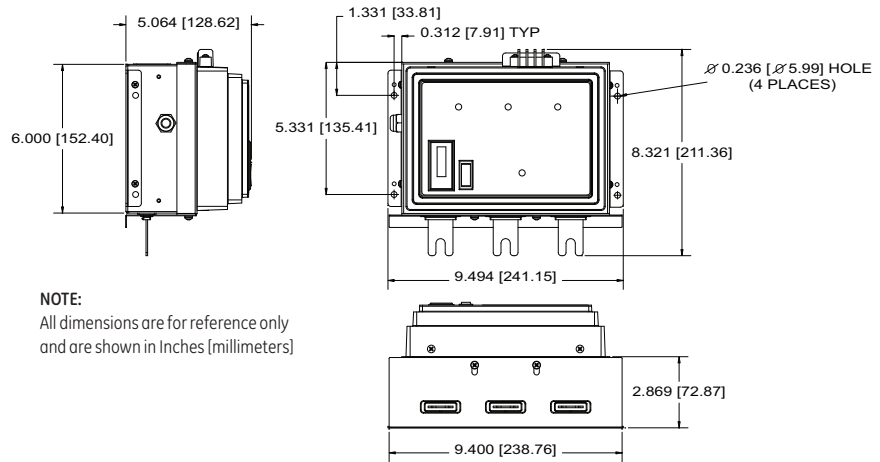
Operating Humidity

0% to 95% Non-Condensing

Weight

13 lbs. (5.9 kg)

Dimensions



NOTE:
All dimensions are for reference only
and are shown in Inches (millimeters)

Catalog # T P M E

	Nominal Voltage (Volts RMS)	System Voltage Configuration	MCOV Max. Continuous Operating Voltage L-N/G (Vrms)	Maximum Surge Current Capacity	
				Per Mode	Per Phase
120S	120/240	1 Ph, 3 W + G	150	06	65kA 130kA
120Y	120Y/208	3 Ph, 4 W + G	150	08	80kA 160kA
240D	240 Delta	3 Ph, 3 W	270	10	100kA 200kA
240H	120/240 Delta HL	3 Ph, 4 W + G	150/270 HL		
240Y	240Y/415	3 Ph, 4 W + G	320		
277Y	277Y/480	3 Ph, 4 W + G	320		
220Y	220Y/380	3 Ph, 4 W + G	320		
480D	480 Delta	3 Ph, 3 W	550		
347Y	347Y/600	3 Ph, 4 W + G	420		

- AS = Full featured, with UL 1283 noise filtering and surge counter for UL Type 2 locations
- ASNF = without EMI/RFI noise filtering (Available 100kA per Mode) only for UL Type 2 locations
- ASNC = without EMI/RFI noise filtering, without surge counter for UL Type 2 locations (Available 100kA per Mode) only
- AST1 = Full featured, with UL 1283 noise filtering and surge counter for UL Type 1 locations



Phase Rating = (L-N + L-G)

Catalog # example: TPME277Y10AS

- 277Y/480 V, 3 Ph, 4 W + G
- 100kA per mode
- Full featured, with UL 1283 noise filtering and surge counter

Protection Ratings

Voltage Code	120S / 120Y				240D		240H						220V / 240Y / 277Y				347Y				480D		
	L-N	L-G	N-G	L-L	L-G	L-L	L-N	HL-N	L-G	HL-G	N-G	L-L	HL-L	L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L	L-G	L-L
UL 1449, 3 rd Edition Voltage Protection Ratings (VPR) (assigned UL rating)	700	600	600	1200	900	1800	700	1200	600	1000	600	1200	1900	1200	1000	1000	2000	1500	1500	1500	3000	1500	3000
UL 1449, 2 nd Edition Suppression Voltage Ratings (SVR) (assigned UL rating) *	500	500	500	700	800	1500	500	700	500	700	500	900	-	800	800	800	1500	1200	1000	1000	2000	1500	3000
B3 Ring Wave Clamping Voltage @ 6kV, 500A	441	443	440	719	733	1207	437	-	438	-	440	789	-	727	800	792	1340	832	967	970	1657	1177	1643
C3 Combo Wave Clamping Voltage @ 20kV, 10kA	673	547	564	883	840	1547	670	-	548	-	564	1093	-	993	937	1000	1667	1420	1180	1180	2880	1547	2880

* NOTE: SVR Ratings are no longer assigned by UL and are included in the table above for reference purposes only.



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