

GE Digital Energy Power Quality

Introduction

GE Surge Protective Devices (SPD) are engineered for reliability, flexibility and long life in the most extreme surge environment. The true maximum surge current rating has been proven successful in third-party tests.

These SPD models connect to the panelboard or switchboard bus bars without adding width or depth to the panel enclosure, and only occupying 7X of vertical bus space. Third-party tested per IEEE C62.62 and NEMA LS-1 for the rated $8 \times 20 \mu\text{s}$ surge current, per mode with fusing included. Standard features include a surge counter, audible alarm, indicating lights, dry contacts and an integral surge rated disconnect. Rating options range from 65kA per mode to 300kA per mode.

All mode protection is provided with surge components (MOVs) connected on the phase to neutral, phase to ground and neutral to ground paths as appropriate for the voltage configuration.

Technical Specifications

Nominal Discharge Current (I_n)	20kA
Short Circuit Current Rating (SCCR)	200kA
Operating Frequency	50/60Hz
Connection	6 to 2/0 Conductors, Parallel Connected
Operating Temperature	-40° F to 149° F (-40° C to +65° C)
Operating Humidity	0% to 95% Non-Condensing
Weight	24 lbs. (10.89 kg)

Features and Benefits

- > UL 1449 3rd Edition, Type 1 or Type 2
- > UL 1283, EMI/RFI noise filter
- > UL 96A, Lightning Protection System
- > cUL, CSA C22.2
- > Integral surge rated disconnect
- > Compact design requires only 7X height of space
- > Tranquell™ ME device is tested to a minimum of 5,000 category C3 impulses (10kA, 20kV) per mode
- > Tranquell™ HE device is tested to a minimum of 20,000 category C3 impulses (10kA, 20kV) per mode
- > Industrial-sized MOV technology
- > Thermally protected MOVs eliminate the need for additional upstream overcurrent protection
- > Form C dry contacts for remote monitoring
- > Green status indicating lights, red alarm light
- > Audible alarm with test/disable feature
- > LCD surge counter
- > 5 year limited warranty (standard), 10 year limited warranty (optional)

Integrated

Tranquell™ HE & ME

Surge Protective Device (SPD)
with Enhanced Thermal Protection

Designed for GE Distribution Equipment



Catalog

		Nominal Voltage (Volts RMS)		System Voltage Configuration	MCOV Max. Continuous Operating Voltage L-N/G (Vrms)	Maximum Surge Current Capacity				
						Exposure Level	Per Mode	Per Phase		
TPHE	120S	120/240	1 Ph, 3 W + G		150	06	TPME	65kA	130kA	PP For all kA ratings (integral to Spectra panel or switchboard) for UL Type 2 Locations
TPME	120Y	120Y/208	3 Ph, 4 W + G		150	08	TPME	80kA	160kA	
	220Y	220Y/380	3 Ph, 4 W + G		320	10	TPME	100kA	200kA	SG For all TPHE devices (125kA - 300kA) integral to switchgear for UL Type 2 Locations
	240D	240 Delta	3 Ph, 3 W		270	12	TPHE	125kA	250kA	
	240H	120/240 Delta HL	3 Ph, 4 W + G		150/270 HL	15	TPHE	150kA	300kA	ME For all kA ratings (integral to MCC) for UL Type 2 Locations
	240Y	240Y/415	3 Ph, 4 W + G		320	20	TPHE	200kA	400kA	
	277Y	277Y/480	3 Ph, 4 W + G		320	25	TPHE	250kA	500kA	PPT1 For all kA ratings (integral to Spectra panel or switchboard) for UL Type 1 Locations
	347Y	347Y/600	3 Ph, 4 W + G		420	30	TPHE	300kA	600kA	
	480D	480 Delta	3 Ph, 3 W		550					SGT1 For all TPHE devices (125kA - 300kA) integral to switchgear for UL Type 1 Locations
										MET1 For all kA ratings (integral to MCC) for UL Type 1 Locations

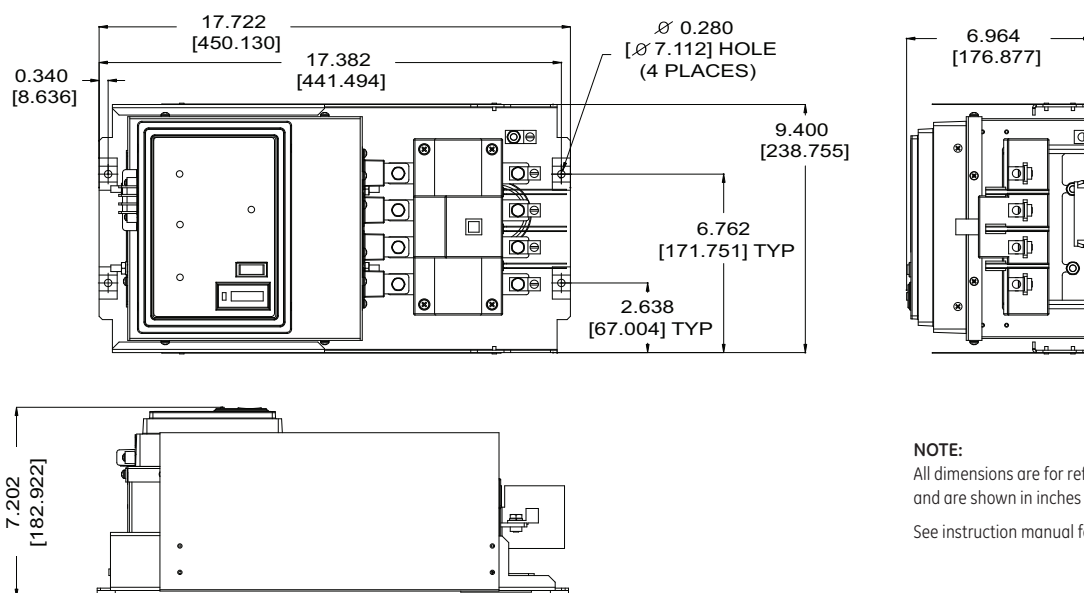


Protection Ratings

Voltage Code	120S / 120Y			240D			240H						220Y / 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)	900	800	700	1200	1200	1800	1000	1200	800	1200	700	2000	2200	1500	1200	1200	2000	1500	1500	1500	2500	1800	3000
UL 1449, 2 nd edition Suppression Voltage Ratings (SVR) (assigned UL rating) *	400	400	400	700	800	1500	500	700	400	700	400	900	-	800	800	800	1500	1200	1000	1000	2000	1500	3000
B3 Ring Wave Clamping Voltage @ 6kV, 500A	470	463	452	752	750	1240	465	-	466	-	476	1025	-	763	836	828	1393	883	1000	1000	1723	1223	1800
C3 Combo Wave Clamping Voltage @ 20kV, 10kA	793	670	680	1007	890	1640	775	-	670	-	680	1163	-	1170	1073	1180	1827	1467	1240	1240	2220	1607	2933

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

Dimensions



NOTE:
All dimensions are for reference only and are shown in inches (millimeters).
See instruction manual for details.



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