

GE Digital Energy Power Quality

Introduction

GE Surge Protective Devices (SPD) feature a compact and economical design for use at medium exposure, distribution or branch panels.

The Tranquell™ LE and ME Series are mounted in a NEMA 12 enclosure. An optional flushmount design and NEMA 4X enclosure are also available. 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. These units come standard with indicating lights and dry contacts. Ratings are available from 25kA – 100kA per mode, 50kA - 200kA per phase.

GE surge protective devices provide all mode protection, with surge components (MOVs) connected on the phase to neutral, phase to ground, and neutral to ground paths as appropriate for the voltage configuration.

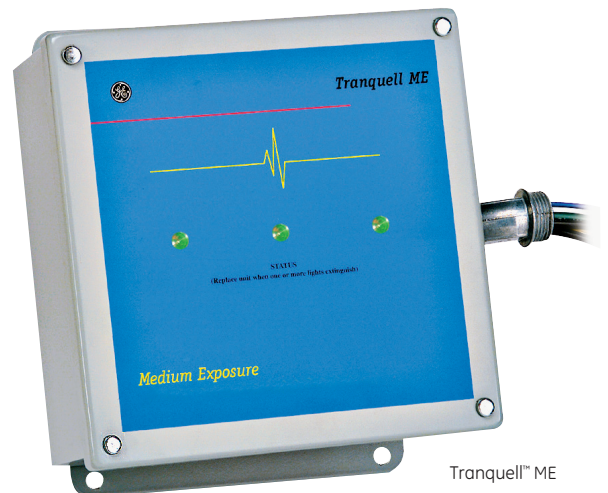
Features and Benefits

- > UL 1449 3rd Edition, Type 2
- > cUL, CSA C22.2
- > UL 96A, for use in lightning protection systems (ME Models Only)
- > UL 1283, Tranquell™ ME devices with EMI/RFI noise filter
- > Tranquell™ ME device tested to a minimum of 5,000 Category C3 impulses (10kA, 20kV) per mode
- > Tranquell™ ME device tested to a minimum of 5,000 Longwave ($10 \times 1000 \mu\text{s}$) impulses per mode
- > Tranquell™ LE device tested to a minimum of 3,500 category C3 impulses (10kA, 20kV) per mode
- > Thermal fuse technology
- > Form C dry contacts for remote monitoring
- > Green status indicating LEDs per phase
- > Standard heavy gauge painted steel NEMA 12 construction, available in surface or flushmount
- > Durable fiberglass construction for NEMA 4X
- > 5 year limited warranty (standard), 10 year limited warranty (optional)

Wallmount Tranquell™ LE & ME Surge Protective Device (SPD)



Tranquell™ LE



Tranquell™ ME

Nominal Discharge Current (I_n)	TLE 10kA TME 20kA
Short Circuit Current Rating (SCCR)	65kA (30A breaker required)
Operating Frequency	50/60 Hz
Connection	10 AWG Conductors, Parallel Connected
Operating Temperature	-40° F to 149° F (-40° C to +65° C)
Operating Humidity	0% to 95% Non-Condensing
Weight	TLE 17 lbs. (7.7 kg) TME 21 lbs. (9.5 kg)

System Configuration					Maximum Surge Current Capacity				Suffix*			
		Nominal Voltage (Volts RMS)	System Voltage Configuration	MCOV Max. Continuous Operating Voltage L-N/G (Vrms)	Exposure Level	Per Mode	Per Phase		Description	NEMA Enclosure	Mounting	
TLE	120S	120/240	1 Ph, 3 W + G	150	025	LE	25kA	50kA		Painted Steel	12	Surface
TME	120Y	120Y/208	3 Ph, 4 W + G	150	050	LE	50kA	100kA	F	Painted Steel	12	Flush
	220Y	220/380	3 Ph, 4 W + G	320	065	ME	65kA	130kA	4	Fiberglass	4X	Surface
	240D	240 Delta	3 Ph, 3 W	270	080	ME	80kA	160kA				
	240H	120/240 Delta HL	3 Ph, 4 W + G	150/270 HL	100	ME	100kA	200kA				
	240Y	240/415	3 Ph, 4 W + G	320								
	277Y	277Y/480	3 Ph, 4 W + G	320								
	480D	480 Delta	3 Ph, 3 W	550								

Voltage Code	120S / 120Y				240D		240H							220Y / 240Y / 277Y				480D	
Protection Mode	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-G	L-L
UL 1449, 3 rd Edition Voltage Protection Ratings (VPR) (assigned UL rating)	600	600	600	1000	900	1800	600	1200	600	1000	600	1000	1800	1200	1000	1200	1800	1800	4000
UL 1449, 2 nd Edition Suppression Voltage Ratings (SVR) (assigned UL rating) *	500	500	500	—	800	—	500	800	500	800	500	—	—	800	800	800	—	1500	—

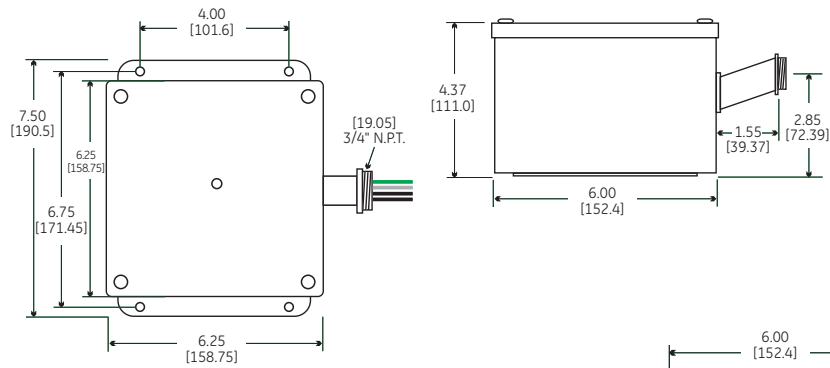
Voltage Code	120S / 120Y				240D		240H							220Y / 240Y / 277Y				480D	
Protection Mode	L-N	L-G	N-G	L-L	L-G	L-L	L-N	HL-N	L-G	HL-G	N-G	L-L	HL-L	L-N	L-G	N-G	L-L	L-G	L-L
UL 1449, 3 rd Edition Voltage Protection Ratings (VPR) (assigned UL rating)	900	1000	900	1500	1500	2000	900	1500	1000	1500	900	1500	2500	1500	1500	1500	2500	1800	4000
UL 1449, 2 nd Edition Suppression Voltage Ratings (SVR) (assigned UL rating) *	400	400	400	—	700	—	400	700	400	700	400	—	—	900	800	1500	—	1500	—

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NEMA 12 – Surfacemount Dimensions – WM Suffix

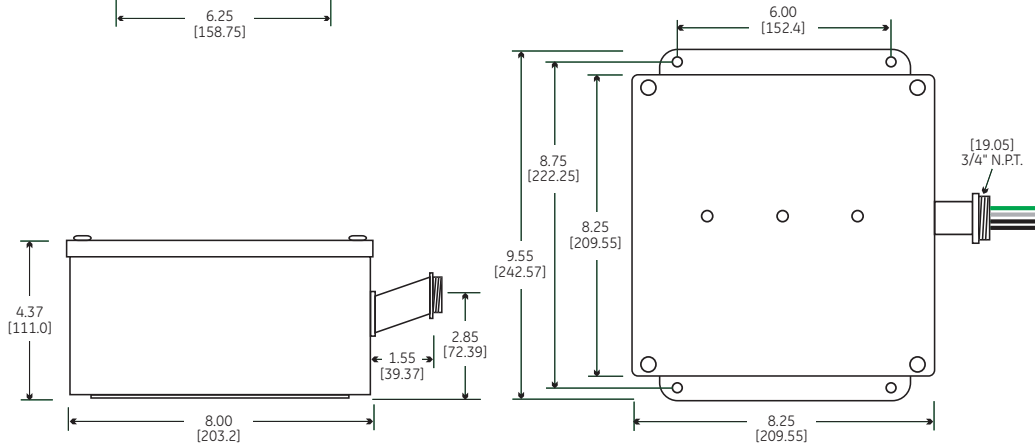
TLE

25, 50kA
per mode



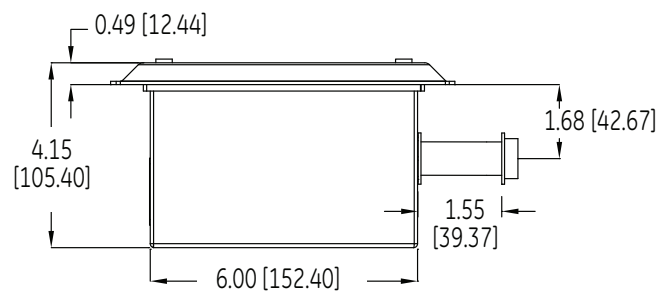
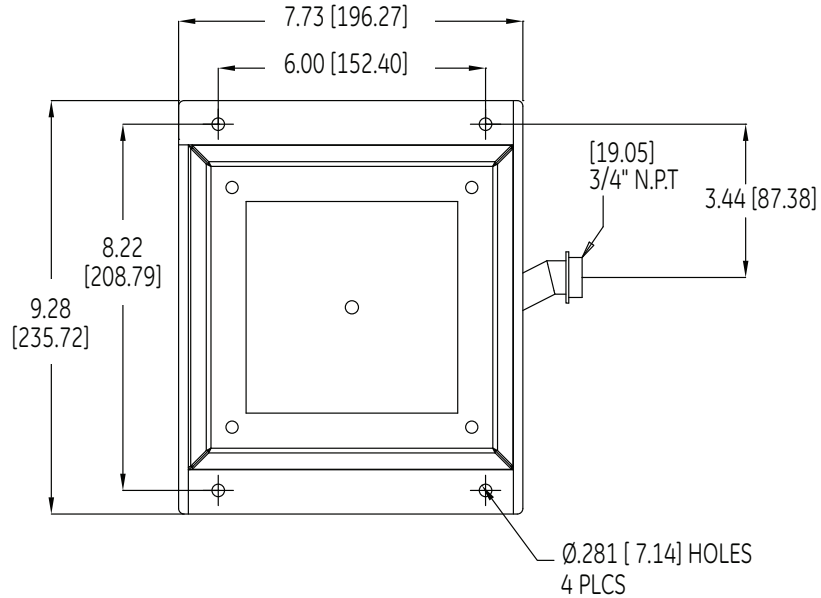
TME

65, 80, 100kA
per mode



TLE Flushmount Dimensions – WMF Suffix

25, 50kA
per mode

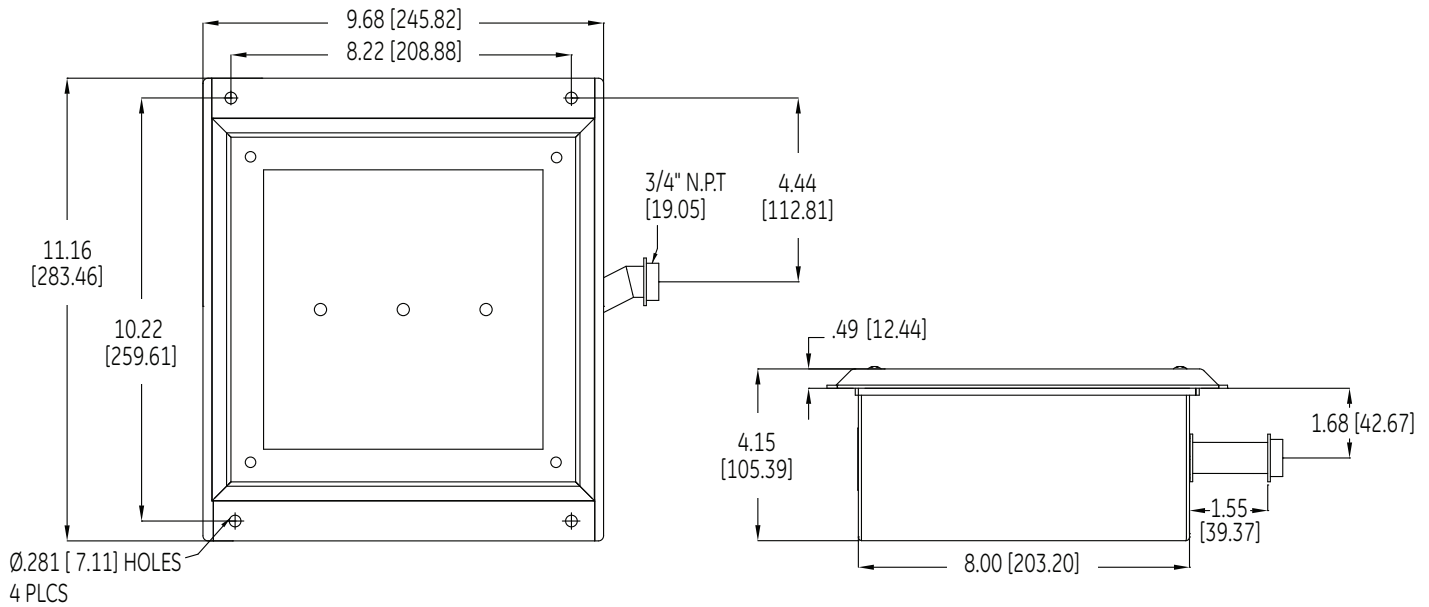


NOTE:

All dimensions are for reference only
and are shown in Inches [millimeters]
Refer to instruction manual for details

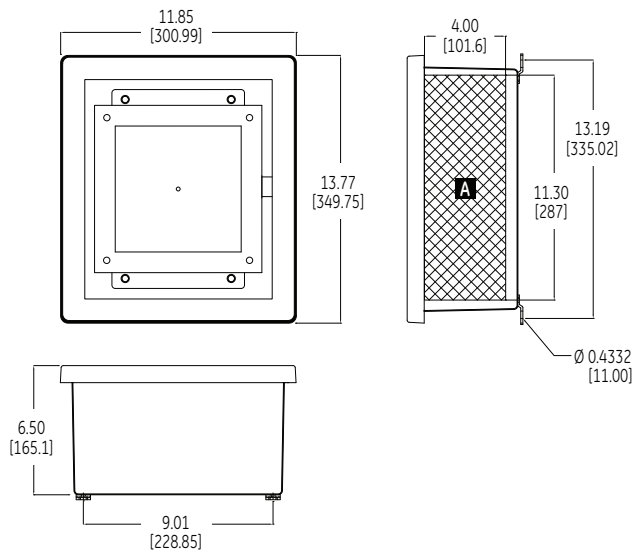
TME Flushmount Dimensions – WMF Suffix

65, 80, 100kA per mode



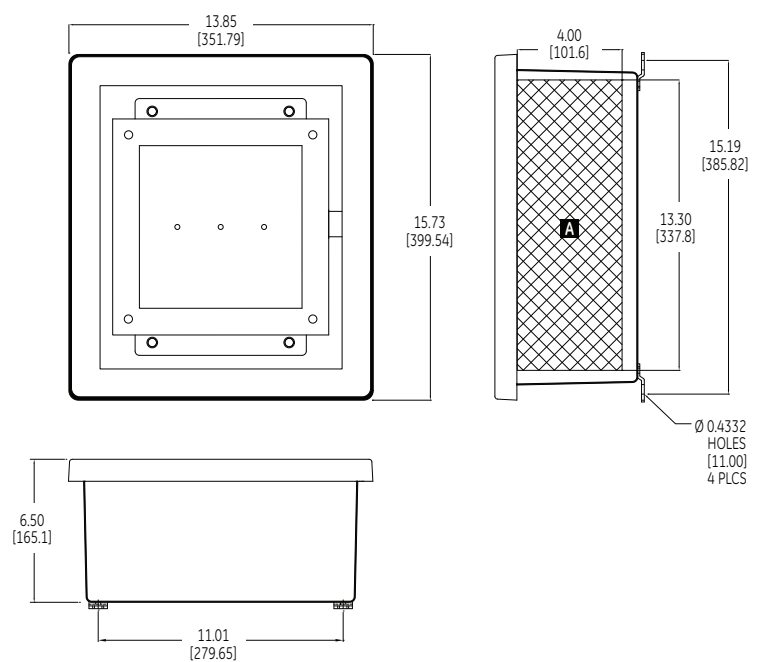
TLE NEMA 4X Dimensions – WM4 Suffix

25, 50kA per mode



TME NEMA 4X Dimensions – WM4 Suffix

65, 80, 100kA per mode



NOTE:
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"A" = Recommended conduit entry areas

Refer to instruction manual for details



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