

# PTX080/PTE080



## GENERAL SPECIFICATIONS

**Peak Surge Current:** 80 kA per phase; 40 kA per mode

**ANSI/IEEE C62.41 Location Categories:** A, B and C.

**Application:** High to Low Exposure Level, sensitive/mission critical load applications including: distribution panels, branch panels and critical load centers.

**Warranty:** Twenty-Year Free Replacement

**Unit Listings:** UL1449 SECOND EDITION, CUL, UL1283 filter

**Manufacturer Qualifications:** ISO 9001:1994 Quality System Certification BSI FM 30833

## MECHANICAL SPECIFICATIONS

**Enclosure:** Powder Coated Steel, NEMA Type 4 (IP66) – weatherproof (exceeds NEMA 1, 12, 13 and 3R).

**Mounting:** Internally threaded fittings – Standard PTX & < 240 V PTE models - 3/4" pre-mounted hub, flush mount plate available. Standard models ≥ 240 V PTE: 3/4" pre-mounted hub. Multi-point mounting feet standard on all models.

**Connection:** #10 (6 mm<sup>2</sup>) stranded wire.

**Weight:** < 240 V ≈ 7 lbs (3 kg) 240 V & above ≈ 12 lbs (5.5 kg)

**Operating Temperature:** -40°F (-40°C) to +185°F (+85°C)

## ELECTRICAL/PERFORMANCE SPECIFICATIONS

**Protection Modes:** All Mode: L-N, L-L (normal mode), L-G, N-G (common mode)

**Input Power Frequency:** PTX: 47-420 Hz; PTE & all –SD option: 47-64 Hz

**Response Time:** PTX: ≤ 1 nanosecond, PTE Active: < 1 nanosecond

**Capacitance:** Up to 10.0 µF per mode (PTE models)

**NOTE:** For applications where earth leakage current may be of concern please utilize PTX models.

**Diagnostics:** LED indicators, 1 green per phase, normally on. Remote Alarm Form C (Volt Free), N/O or N/C contacts (contact rating 1 Amp, 120 VAC or 2 Amp, 30 VDC), internal terminal strips and weatherproof fitting.

**Short Circuit Current Rating:** 200 kAIC using 30 amp class R fuse (not provided)

Maximum EMI/RFI Attenuation – Mil-Std-220

1 kHz	10 kHz	100 kHz	1 MHz	10 MHz	Maximum Attenuation Frequency
3 dB	21 dB	40 dB	23 dB	8 dB	40 dB @ 113 kHz

## OPTIONS AVAILABLE

**Active Tracking Network (ATN<sup>®</sup>):** PTE models

**Audible Alarm, Surge Counter and Phase Loss Monitor (S.M.A.R.T.™):** (-SD suffix)

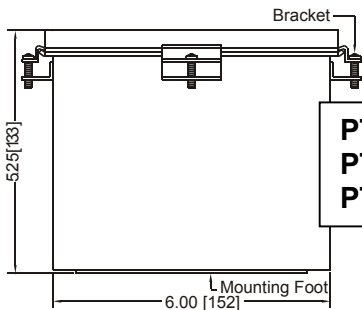
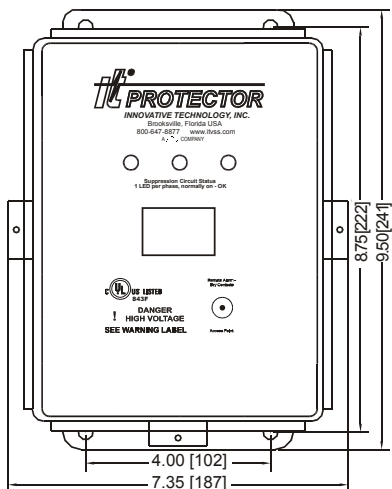
**Stainless Steel, Type 4X Enclosure:** (-SS suffix) (contact factory, min qty applies)

**Fused:** (-L suffix) (See web site for current field drawings)

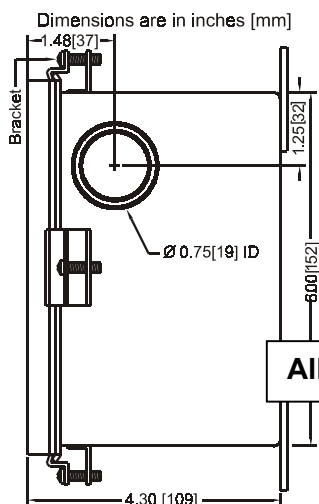
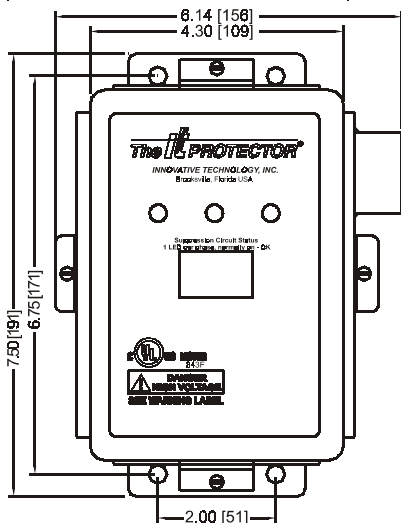
**Fused Disconnect:** (-D suffix) (See web site for current field drawings)

**ARM-3 Remote Alarm Module**

# PTX080/PTE080



PTE080-1P201 PTE080-NN201  
PTE080-3Y201 PTE080-NN400  
PTE080-3Y300 PTE080-NN501



Flush mount plate available:  
8x6 enclosure = **ZPLATE-3A**  
6x4 enclosure = **ZPLATE-8**

All other PTX and PTE products

PTX080 PTE080	System Config	Nominal System Voltage	MCOV	ANSI/IEEE C62.41-1991 Measured Limiting Voltage*								UL SVR	
				PTE Models A1 Ring Wave 2 kV, 67 A 180° Phs Angle		PTE Models A1 Ring Wave 2 kV, 67 A 90° Phs Angle		All Models B3/C1 Impulse 6 kV, 3 kA 90° Phs Angle		All Models C3 Impulse 20 kV, 10 kA 90° Phs Angle		UL 1449-2 Suppressed Voltage Ratings	
				L-N L-G HiL-N	L-L N-G HiL-G	L-N L-G HiL-N	L-L N-G HiL-G	L-N L-G HiL-N	L-L N-G HiL-G	L-N L-G HiL-N	L-L N-G HiL-G	L-N L-G HiL-N	L-L N-G HiL-G
1P101	1 φ 2w+grnd	100, 110, 120, 127	150	60 100	-- 70	220 260	-- 200	530 540	510	940 1060	-- 980	400 400	400 --
1P201	Single φ 2w+grnd	200, 208, 220, 230, 240, 277	320	80 140	-- 90	450 500	-- 260	1000 1040	940	1530 1640	-- 1440	800 800	800 --
1S101	Split φ 3w+grnd	100/200, 110/220 120/240, 127/254	150/300	60 100	70 70	220 260	360 200	530 540	910 510	940 1060	1270 980	400 400	800 400
3Y101	3 φ Y/Star 4w+grnd	100/175, 110/190 120/208, 127/220	150/300	60 100	70 70	220 260	360 200	530 540	910 510	940 1060	1270 980	400 400	800 400
3Y201	3 φ Y/Star 4w+grnd	220/380, 230/400 240/415, 277/480	320/640	80 140	120 90	450 500	760 260	1000 1040	1730 940	1530 1640	2250 1440	800 800	1500 800
3Y300	3 φ Y/Star 4w+grnd	305/525, 347/600	460/920	90 140	110 100	540 600	930 280	1410 1510	2510 1390	1980 2210	3160 2030	1000 1000	2000 1000
3D101	3 φ Δ (Hi-Leg) 4w+grnd	120/240	150/300	60 100 80	70 90 140	220 260 450	360 260 500	530 540 1000	910 940 1040	940 1060 1530	1270 1440 1640	400 400 800	1500 400 800
NN201	3 φ Δ 3w+grnd	200, 208, 220 230, 240	320	-- 600	60 --	-- 700	390 --	-- 1000	980 --	-- 1750	1640 --	-- 800	800 --
NN400	3 φ Δ 3w+grnd	380, 400, 415 440, 480	580	-- 1010	60 --	-- 1300	750 --	-- 1710	1680 --	-- 2420	2360 --	-- 1500	1500 --
NN501	3 φ Δ 3w+grnd	525, 600	750	-- 1260	60 --	-- 1500	900 --	-- 2050	2030 --	-- 2780	2690 --	-- 2000	2000 --

\*Test environment: All tests performed with 6" lead length, positive polarity. Voltages are peak ±10%. Measurements are taken from zero reference per NEMA LS-1.



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