



PTX160/PTE160



GENERAL SPECIFICATIONS

Peak Surge Current: 160 kA per phase; 80 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, weatherproof; NEMA Type 4 (IP66) – exceeds 12, 13 and 3R ratings

Mounting: Internally threaded conduit fitting & multi-point mounting feet

Connection: #10 (6 mm²) stranded wire.

Weight: ≈ 5.5 kg (12 lbs.)

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: PTE: Up to 10 µF per mode

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 ratings 60 W or 125 VA, 125 VAC and 0.3 Amp or 30 VDC and 1 Amp), internal terminal strips and weatherproof fitting. Optional S.M.A.R.T. (surge counter and phase loss indicator with audible alarm).

Short Circuit Current Rating: 200 kAIC using 30 Amp Class RK5 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	21 dB	5 dB	40 dB @ 98 kHz

OPTIONS AVAILABLE

Active Tracking Network (ATN®): 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, minimum quantities apply)

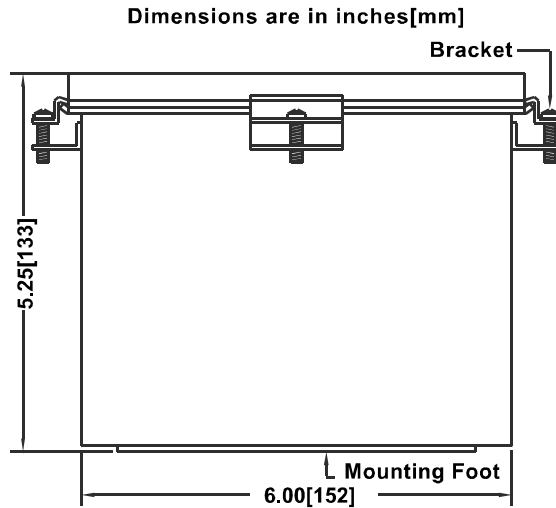
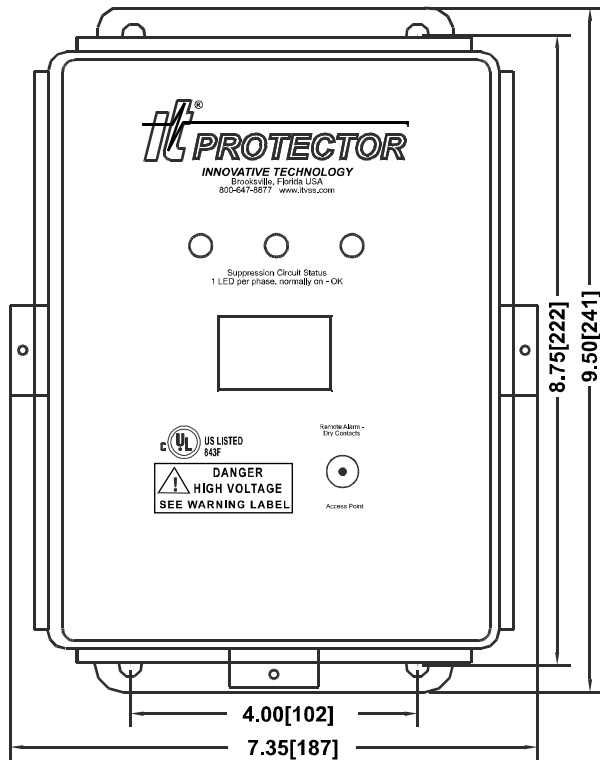
Fused: (-L suffix) (See web site for current field drawings)

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

ARM-3 Remote Alarm Module



PTX160/PTE160



PTX160 PTE160	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	Single φ 2w+grnd	100, 110, 120, 127	150	70 110	— 90	250 390	— 240	550 580	— 530	1030 1210	— 1130	400 400	— 400
1P201	Single φ 2w+grnd	200, 208, 220, 230, 240, 277	320	80 150	— 100	480 520	— 90	990 1060	— 960	1580 1840	— 1650	800 800	— 800
1S101	Split φ 3w+grnd	100/200, 110/220 120/240, 127/254	150/300	70 110	80 90	250 390	280 240	550 580	910 530	1030 1210	1340 1130	400 400	800 400
3Y101	3 φ Y/Star 4w+grnd	100/175, 110/190 120/208, 127/220	150/300	70 110	80 90	250 390	280 240	550 580	910 530	1030 1210	1340 1130	400 400	800 400
3Y201	3 φ Y/Star 4w+grnd	220/380, 230/400 240/415, 277/480	320/640	80 150	110 100	480 520	830 90	990 1060	1700 960	1580 1840	2310 1650	800 800	1500 800
3Y300	3 φ Y/Star 4w+grnd	305/525, 347/600	460/920	70 730	90 850	580 620	1020 100	1220 1280	2140 1190	1770 1880	2680 1760	1000 1000	2000 1000
3D101	3 φ Δ (Hi-Leg) 4w+grnd	120/240	150/300	80 120 80	380 90 120	250 290 380	380 90 430	580 970 990	930 830 980	1390 1630 1840	1550 1500 1640	400 400 800	1500 400 800
NN201	3 φ Δ 3w+grnd	200, 208, 220, 230, 240	320	— 610	70 —	— 670	410 —	— 970	950 —	— 1440	1490 —	— 800	800 —
NN400	3 φ Δ 3w+grnd	380, 400, 415 440, 480	580	— 1180	70 —	— 1280	770 —	— 1750	1730 —	— 2390	2390 —	— 1500	1500 —
NN501	3 φ Δ 3w+grnd	525, 600	750	— 1350	90 —	— 1650	970 —	— 2130	2160 —	— 2990	2890 —	— 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.

