



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)

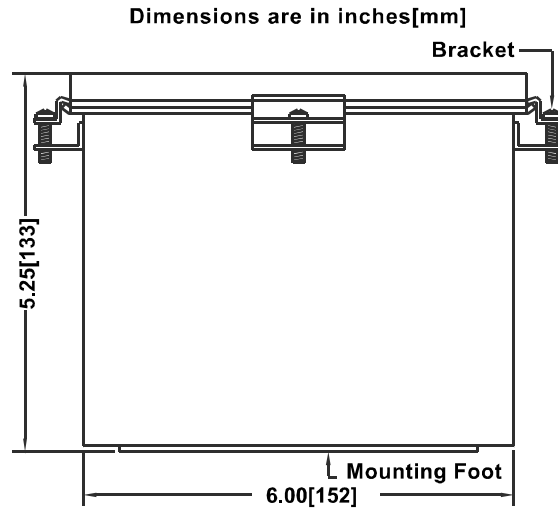
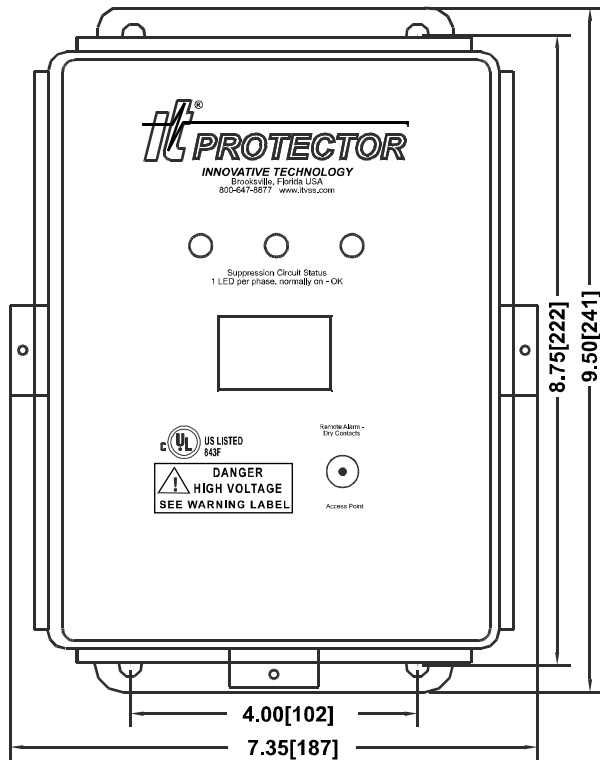
ARM-3 Remote Alarm Module



Specifications subject to change

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