



### SAFETY APPROVALS

UL 1449 Fourth Edition Listed by ETL., UL 1283 with “-F” suffix.

### INSTALLATION

Ultra compact, fail-safe design with component-level fusing. ANSI.IEEE C62.41 Location C, B & A. In=20kA (\*In=10kA on 380NN and 480NN models). **Type 1 SPD** - can be installed line-side or load-side of main disconnect . Prewired with 36 “(914.4mm) of #10 AWG (5.26mm<sup>2</sup>) conductor. Install direct to the bus, disconnect, or on any size breaker (20 to 30 amp breaker recommended as a disconnect means). Steel nipple standard.

### WARRANTY

15-Year Unlimited Free Replacement

### SHORT CIRCUIT CURRENT RATING

100kAIC on all units

### OPERATING TEMPERATURES

-40° C to 70° C (-40° F to 160° F); 5% to 95% non-condensing humidity

### FREQUENCY ATTENUATION

AC Sine Wave Tracking Power Filter 1kHz to 20MHz

### POWER FREQUENCY RANGE

40-440Hz ( 48-63Hz with -F filter option)

### MAX SURGE CURRENT

50kA per phase

### RESPONSE TIME

< 0.5 nanosecond

### MONITORING

Status indicator & Phase Loss (Green LED)

### ENCLOSURE

Black weather proof NEMA 4 enclosure for indoor or outdoor use. Optional nema 4x polycarbonate enclosure available.

### PROTECTION MODES

All modes L-N, L-G, N-G & L-L

### DIMENSIONS (APPROX):

2.9”H x 4.4”W x 7.6”L

### WEIGHT:

2.6 lbs

Model #	Voltage Description	MCOV	Strength Per Phase	A1Ring Wave 180 degrees (2kV, 67A)	UL 4th Ed. VPR Ratings (6kV, 3kA)
TPX-1S240-F	120/240VAC Single 3W+G	150 L-N	50kA	73V L-N	600V L-N
TPX-3Y208-F	120/208VAC Wye 4W+G	150 L-N	50kA	73V L-N	600V L-N
TPX-3D240-F	120/240VAC Delta High Leg 4W+G	150/320L-N	50kA	73V L-N	600/1000V L-N
TPX-3Y380-F	220/380VAC Wye 4W+G	320 L-N	50kA	73V L-N	1000V L-N
TPX-3Y415-F	240/415VAC Wye 4W+G	320 L-N	50kA	73V L-N	1000V L-N
TPX-3Y480-F	277/480VAC Wye 4W+G	320 L-N	50kA	73V L-N	1000V L-N
TPX-240NN-F	240 VAC Delta Three Phase 4W+G	320 L-G	50kA	73V L-L	1000V L-G
TPX-380NN-F	380 VAC Delta Three Phase 4W+G	520 L-G	50kA	73V L-L	1800V L-G
TPX-480NN-F	480 VAC Delta Three Phase 4W+G	520 L-G	50kA	73V L-L	1800V L-G
TPX-1P120-F	120VAC 2W+G	150 L-N	50kA	73V L-N	600V L-N
TPX-1P240-F	240VAC 2W+G (International)	150 L-N	50kA	73V L-N	600V L-N

ANSI/IEEE C62.41.1-2002, C62.41.2-2002, & C62.45-2002 Measured Limited Voltage

All units tested with six inch leads. Specification subject to change without notice. Contact TPD for additional voltages and models.

### OPTIONS:

- Add “-FMP” suffix for flush mount cover plate.
- Add “-P” suffix for Nema 4X polycarbonate enclosure.
- Add “-N” for plastic nipple with flex tubing.
- Add “-NX” for stainless steel nipple.
- Add “-R” for dry relay contacts.
- For Extra filtering replace “-F” with “-E” suffix.
- To eliminate transient filter, delete “-F” suffix.
- For Din Rail mounting order **TPX-DIN-KIT6.5**.

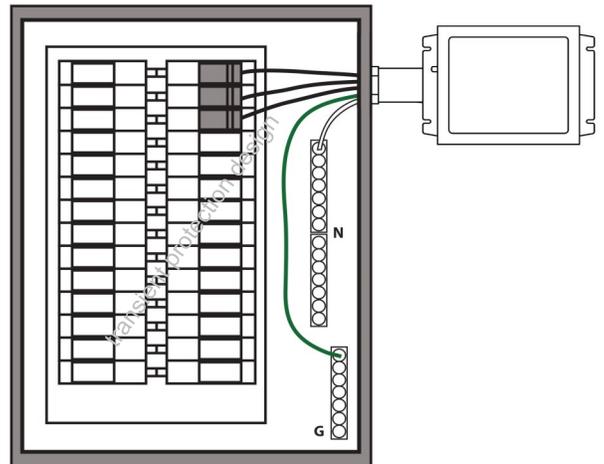
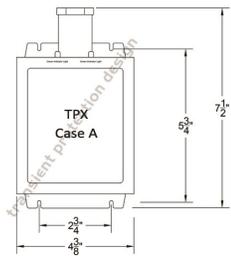
**EMI/RFI**

**FILTER ATTENUATION**

**MIL STANDARD 220B**

100kHz.....29dB

1MHz.....32dB



### Sample 3 phase installation.

Install and clip lead wires as short and straight as overall possible for best installation. The shorter the wires the better the performance of the unit. The TPX comes with #10 awg wire and as a Type 1 SPD can be installed to any size breaker or direct to lugs. Breakers typically allow for the cleanest and shortest installation. This unit can be mounted at the top, bottom, right or left side of the a breaker panel.