



### SAFETY APPROVALS

UL 1449 Fifth 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 and Type 2 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 60 amp breaker recommended as a disconnect means). Steel nipple standard.

### WARRANTY

15-Year Unlimited Free Replacement

### SHORT CIRCUIT CURRENT RATING

200kAIC 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

75kA per mode; 150kA 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.

### PROTECTION MODES

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

### DIMENSIONS (APPROX):

2.9"H x 4.4"W x 14.26"L

### WEIGHT:

8.1 lbs

Model #	Voltage Description	MCOV	Strength Per Phase	A1Ring Wave	UL 5th Ed. VPR Ratings			
				180 degrees (2kV, 67A)	L-N	L-G	N-G	L-L
TPX-1S240-F-150	120/240VAC Single 3W+G	150 L-N	150kA	73V L-N	600	600	600	1200
TPX-3Y208-F-150	120/208VAC Wye 4W+G	150 L-N	150kA	73V L-N	600	600	600	1200
TPX-3D240-F-150	120/240VAC Delta High Leg 4W+G	150/320L-N	150kA	73V L-N	1200/1800	1200/1800	1200/1800	600
TPX-3Y380-F-150	220/380VAC Wye 4W+G	320 L-N	150kA	73V L-N	1000	1000	1000	2000
TPX-3Y415-F-150	240/415VAC Wye 4W+G	320 L-N	150kA	73V L-N	1000	1000	1000	2000
TPX-3Y480-F-150	277/480VAC Wye 4W+G	320 L-N	150kA	73V L-N	1000	1000	1000	2000
TPX-240NN-F-150	240 VAC Delta Three Phase 3W+G	320 L-G	150kA	73V L-L	1000	1000	N.A.	2000
TPX-380NN-F-150	380 VAC Delta Three Phase 3W+G	520 L-G	150kA	73V L-L	N.A.	1800	N.A.	4000
TPX-480NN-F-150	480 VAC Delta Three Phase 3W+G	520 L-G	150kA	73V L-L	N.A.	1800	N.A.	4000
TPX-1P120-F-150	120VAC 2W+G	150 L-N	150kA	73V L-N	600	600	600	N.A.
TPX-1P240-F-150	240VAC 2W+G (International)	320 L-N	150kA	73V L-N	1000	1000	1000	N.A.

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 "-N" for Nema 4X plastic nipple with flex tubing.

Add "-NX" for Nema 4X stainless steel nipple.

Add "-R" for dry relay contacts. Enclosure will increase by 3" in length.

For Extra filtering L-N with 58V A1 Ring Wave let through voltages replace "-F" with "-E" suffix.

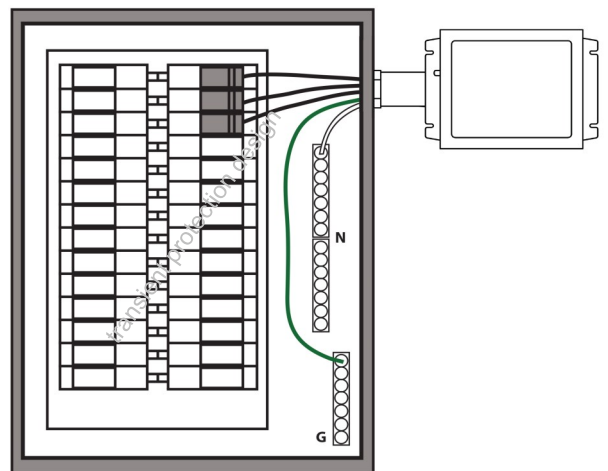
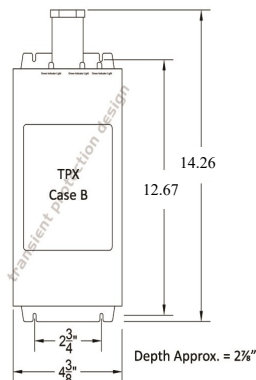
To eliminate transient filter, delete "-F" suffix.

**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.