Sine Wave Tracking Filter & Surge Suppressor

TPX-100

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) 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

Model # | Voltage Description | MCOV | Strength Per Phase (2kV, 67A) | A1Ring Wave 180 degrees (6kV, 3kA) | UL 4th Ed. VPR Ratings (6kV, 3kA) | Enclosure
--- | --- | --- | --- | --- | --- | ---
TPX-1S240-F-100 | 120/240VAC Single 3W+G | 150 L-N | 100kA | 73V L-N | 600V L-N |
TPX-3Y208-F-100 | 120/208VAC Wye 4W+G | 150 L-N | 100kA | 73V L-N | 600V L-N |
TPX-3D240-F-100 | 120/240VAC Delta High Leg 4W+G | 150/320L-N | 100kA | 73V L-N | 600/1000V L-N |
TPX-3Y380-F-100 | 220/380VAC Wye 4W+G | 320 L-N | 100kA | 73V L-N | 1000V L-N |
TPX-3Y415-F-100 | 240/415VAC Wye 4W+G | 320 L-N | 100kA | 73V L-N | 1000V L-N |
TPX-3Y480-F-100 | 277/480VAC Wye 4W+G | 320 L-N | 100kA | 73V L-N | 1000V L-N |
TPX-240NN-F-100 | 240 VAC Delta Three Phase 4W+G | 320 L-G | 100kA | 73V L-L | 1000V L-G |
TPX-380NN-F-100 | 380 VAC Delta Three Phase 4W+G | 520 L-G | 100kA | 73V L-L | 1800V L-G |
TPX-480NN-F-100 | 480 VAC Delta Three Phase 4W+G | 520 L-G | 100kA | 73V L-L | 1800V L-G |
TPX-1P120-F-100 | 120VAC 2W+G | 150 L-N | 100kA | 73V L-N | 600V L-N |
TPX-1P240-F-100 | 240VAC 2W+G (International) | 150 L-N | 100kA | 73V L-N | 600V L-N |

POWER FREQUENCY RANGE
40-440Hz (48-63Hz with “-F” filter option)

MAX SURGE CURRENT
50kA per pole; 100kA 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):

| Weight: | 2.6 lbs | 4.1 lbs |

WEIGHT:

DEMOFIT MOUNTING & INSTALLATION

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 for case A, and TPX-DIN-KIT9.5 for case B.

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 fuses. 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.

0.5 nanosecond

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