

# TransTrack<sub>®</sub>2 100

## **SYSTEM FEATURES**



- Protects facilities and equipment against the harmful effects of lightning strikes and internally generated electrical transients
- Individually fused MOV's provide superior protection and continuous operation
- 200 kAIC short circuit current rating allows direct bus connection without the need of an upstream over-current protection device
- Includes pre-wired pigtail conductors to stream line installation

- Low profile design has an optional flush-mount plate for in-wall recessed panel applications
- UL 1283 EMI/RFI filter
- Ultra Compact Footprint makes installation flexible
- Enhanced Transient Filter for better protection of electronic loads
- · 25-Year Unlimited Free Replacement Warranty
- Status indicator lights (LED)

# PRODUCT SPECIFICATIONS

### **GENERAL SPECIFICATIONS**

Maximum Rated Surge Current: 100kA per phase (50kA/mode)
Repetitive Surge Current Rating: 3,000 impulses per mode based on actual test data (using ANSI/IEEE C62.41.1-2002 C3 combo wave)
Application: ANSI/IEEE C62.41 Location C, B & A. Ideal for distribution panels, branch panels and critical loads

Design: Hybrid parallel design with individual fused MOV's and

UL 1283 EMI/RFI filter

Warranty: 25-Year Unlimited Free Replacement

Safety Listing: UL 1449 5th Ed., Type 1 for Type 1 & Type 2

locations and UL 1283

### **ELECTRICAL SPECIFICATIONS**

Modes of Protection: All modes: L-N, L-G, N-G & L-L

Input Power Frequency: 47-63Hz

Connection Method: Parallel to electrical distribution system

Response Time: Less than 1 nanosecond

**Standard Monitoring:** Status indicator lights (one per phase) **Short circuit Current Rating:** 200 kAIC — no upstream over-current

protection device (breaker or fuse) required.

### **MECHANICAL SPECIFICATIONS**

**Dimensions (approx.):** 6"H x 6"W x 4"D (160 mm H x 160 mm W x 102 mm D)

Enclosure: Powder coated, impact-resistance steel, weather-proof

NEMA 4 (IP56)

Connection: Pre-wired with 30" (915 mm) of #10 AWG (5.26 mm $^{2}$ )

conductor

Mounting: Dual mounting flanges

Operating Environment: -40° C to 70° C (-40° F to 160° F)

5% to 95% non-condensing humidity

Weight: 10 lbs. (4.5 kg)

### **AVAILABLE CONFIGURATIONS**

Model Number	Description
TK-TT2-100-1P120-FL	120VAC, Single-Phase 2-wire + grd
TK-TT2-100-1P240-FL	240VAC, Single-Phase 2-wire + grd
TK-TT2-100-1S240-FL	120/240VAC, Split-Phase, 3-wire + grd
TK-TT2-100-3Y208-FL	120/208VAC, Three-Phase, 4-wire + grd
TK-TT2-100-3Y380-FL	220/380VAC,Three-Phase, 4-wire + grd
TK-TT2-100-3Y480-FL	277/480VAC,Three-Phase, 4-wire + grd
TK-TT2-100-3D240-FL	120/240VAC, 3ø high-leg DELTA, 4-wire + grd (B phase must be 208V)
TK-TT2-100-240NN-FL	240VAC, Three-Phase, 3-wire + grd

# **AVAILABLE OPTIONS**

 Monitoring package (Form C dry relay contacts + audible alarm with mute button): add suffix "-M"

Stand-Alone Option (To Be Ordered as a separate Item)

TT2-FMP Flush-Mount Plate Kit

• NEMA-4X Stainless Steel enclosure: add suffix "XX"

# **EMI / RFI FILTER ATTENUATION – MIL STANDARD 220B**

Max. Attenuation Frequency

40 dB @ 100 kHz

FREE

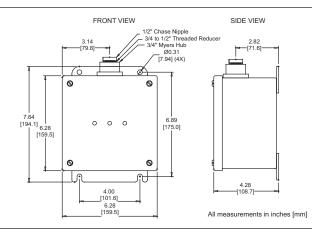


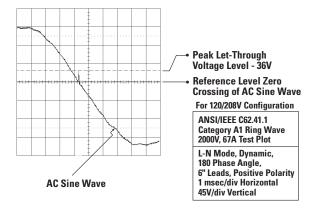


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## ANSI/IEEE C62.41.1-2002, C62.41.2-2002, & C62.45-2002 Measured Limited Voltage

**UL Voltage Ratings** 

Model Number	System Voltage	System Configuration	Protection Mode	MCOV	A1 Ring Wave 2kV, 67A 180° Phase Angle	B3/C1 Impulse Wave 6kV, 3kA 90° Phase Angle	C3 Impulse Wave 20kV, 10kA 90° Phase Angle	UL 1449 2nd Edition/ UL 1449 5th Ed. Voltage Protection Ratings
TK-TT2-100-P120-FL	120V	1-Phase 2-wire+grnd	L-N L-G N-G	150V 150V 150V	42V 541V 765V	590V 597V 590V	970V 1160V 1100V	400/600 400/600 400/600
TK-TT2-100-1P240-FL	240V	1-Phase 2-wire+grnd	L-N L-G N-G	320V 320V 320V	42V 541V 765V	1038V 1037V 1037V	1660V 1690V 1510V	800/1200 800/1200 800/1200
TK-TT2-100-1S240-FL	120/240V	Split-Phase 3-wire+grnd	L-N L-G L-L N-G	150V 150V 300V 150V	36V 283V 56V 322V	590V 597V 980V 590V	970V 1160V 1490V 1100V	400/600 400/600 800/1000 400/600
TK-TT2-100-3Y208-FL	120/208V	3-Phase WYE 4-wire+grnd	L-N L-G L-L N-G	150V 150V 300V 150V	36V 283V 56V 322V	590V 597V 980V 590V	970V 1160V 1490V 1100V	400/600 400/600 800/1000 400/600
TK-TT2-100-3Y380-FL	220/380V	3-Phase WYE 4-wire+grnd	L-N L-G L-L N-G	320V 320V 600V 320V	42V 541V 63V 765V	1040V 1037V 1860V 1035V	1660V 1690V 2570V 1510V	800/1200 800/1200 1500/2000 800/1200
TK-TT2-100-3Y480-FL	277/480V	3-Phase WYE 4-wire+grnd	L-N L-G L-L N-G	320V 320V 600V 320V	42V 541V 63V 765V	1040V 1037V 1860V 1035V	1660V 1690V 2570V 1510V	800/1200 800/1200 1500/2000 800/1200
TK-TT2-100-3D240-FL	120/240V	3-Phase high-leg DELTA 4-wire+grnd	L-N H-N L-G H-G L-L H-L N-G	150V 320V 150V 320V 320V 470V 150V	36V 39V 283V 735V 31V 71V 303V	598V 1041V 595V 1042V 988V 1394V 595V	960V 1326V 1160V 1495V 1490V 1629V 860V	400/600 800/1200 400/600 800/1200 800/1000 1500/1500 400/600
TK-TT2-100-240NN-FL	240V	3-Phase DELTA 3-wire+grnd	L-G L-L	320V 300V	525V 70V	1039V 978V	1500V 1300V	800/1200 800/1000

All tests performed with  $6^\circ$  (152 mm) lead length, positive polarity.

All voltages are peak values (±10%) measured from the zero reference point at the phase angles referenced above using a 10 µs/div display rate and 500 Mega samples/sec sampling rate. Specifications subject to change without notice. See web site www.TPSsurge.com for latest revisions.