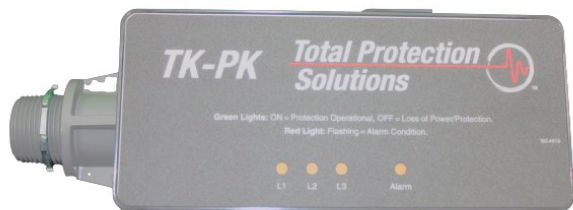


SYSTEM FEATURES



- Providing the highest level of protection with the lowest let-through voltage in the industry
- Fail-Safe Design
- Component Level Fusing
- Independent 3rd party tested
- Form C dry relay contacts and audible alarm
- Two suppression technologies: MOV & Enhanced Transient Filter
- UL 1283 Tracking Filter
- Ultra, Compact Footprint – efficiency and performance
- 10-Year Unlimited Free Replacement Warranty
- Weatherproof NEMA 4X polycarbonate enclosure

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

Maximum Surge Current Rating: 130kA per phase, 65kA per mode

Application: ANSI/IEEE C62.41 Location C, B, & A. Ideal for distribution panels, branch panels and critical load disconnects, indoor & outdoor

Design: Optimum performance parallel hybrid with component level fusing

Warranty: 10-Year Unlimited Free Replacement

Safety Listings: UL1449 5th Ed, Type 2

✓ RoHS Compliant

100% Quality Testing Prior to Shipping

ELECTRICAL SPECIFICATIONS

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

Input Power Frequency: 40-68Hz

Response Time: < 1 nanosecond

Standard Monitoring: Status indicator light (one green LED per phase and one red LED for service required). One red LED flashes if in fault condition. Audible alarm standard

1 RED LED – flashes if fault condition: GRM (Ground Reference Monitoring), N-G voltage > 20V detected, audible alarm

Short Circuit Current Rating: 200kAIC on all units

MECHANICAL SPECIFICATIONS

Dimensions (approx.): 7.95" L x 3.06" D x 2.75" W
(201.93mm L x 77.72mm D x 69.85mm W)

Enclosure: : NEMA 4X polycarbonate (IP66). Perfect for installations in corrosive environments or where the installation requires a weatherproof enclosure.

Connections: Pre-wired with 18" #12 AWG conductors (4.0mm²)

Mounting: Flush, flange, & through-hole

Operating Environment: -40°C to 70°C (-40°F to 160°F) indoor and/or outdoor

0% to 95% non-condensing humidity

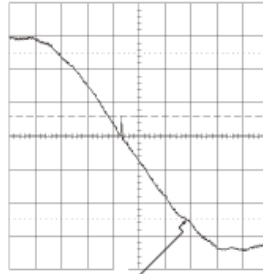
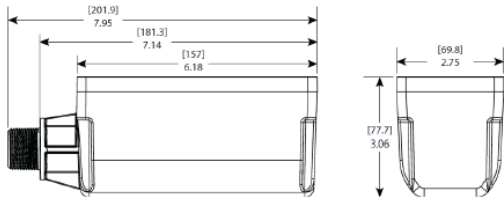
Weight: 1.5lbs.

AVAILABLE CONFIGURATIONS

Model Number	Description
TK-PK130-1P120-FL	120VAC, 1Ø 2-wire
TK-PK130-1P240-FL	240VAC, 1Ø 2-wire
TK-PK130-1S240-FL	120/240VAC, 1Ø SPLIT-PHASE, 3-wire
TK-PK130-3D240-FL	120/240VAC, 3Ø high-leg DELTA, 4-wire (B phase must be ≈ 208V)
TK-PK130-3Y208-FL	120/208VAC, 3Ø WYE, 4-wire
TK-PK130-3Y480-FL	277/480VAC, 3Ø WYE, 4-wire
TK-PK130-3Y600-FL	347/600VAC, 3Ø WYE, 4-wire
TK-PK130-240NN-FL	240VAC, 3Ø DELTA, 3-wire
TK-PK130-480NN-FL	480VAC, 3Ø DELTA, 3-wire
TK-PK130-600NN-FL	600VAC, 3Ø DELTA, 3-wire

EMI/RFI Filter Attenuation – MIL Standard 220B
Max. Attenuation Frequency
40dB@100kHz





Peak Let-Through Voltage Level—
44V
Reference Level Zero Crossing of
AC Sine Wave

For 120/208V Configuration

ANSI/IEEE C62/.41.1
Category A1 Ring Wave 2000V,
67A Test Plot

L-N Mode, Dynamic,
180° Phase Angle,
6" Leads, Positive Polarity
1 msec/div Horizontal 55V/div
Vertical

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	B3/C1 Impulse Wave	UL 1449 5th Edition
TK-PK130-1P120-FL	120V	Single Phase	L-N	180	46	490	700
			L-G	180	376	610	700
			N-G	180	392	610	700
TK-PK130-1P240-FL	240V	Single Phase	L-N	350	48	940	1200
			L-G	350	800	1150	1200
			N-G	350	770	1135	1200
TK-PK130-1S240-FL	120/240V	Single (Split) Phase	L-N	180	44	490	700
			L-G	180	500	610	700
			N-G	180	460	610	700
			L-L	360	94	860	1200
TK-PK130-3D240-FL	120/240V	Three Phase High Leg Delta	L-N	180	48	492	700
			H-N	275	50	610	900
			L-G	180	377	610	700
			H-G	275	545	935	1000
			L-L	275	88	870	1200
			H-L	320	425	870	1500
			N-G	180	375	1030	700
			L-L	360	88	860	1200
TK-PK130-3Y208-FL	120/208V	Three Phase Wye	L-N	180	46	490	700
			L-G	180	376	610	700
			N-G	180	392	610	600
			L-L	360	88	860	1200
TK-PK130-3Y415-FL	240/415V	Three Phase Wye	L-N	350	44	940	1200
			L-G	350	800	1150	1200
			N-G	350	770	1000	1200
			L-L	700	87	1880	2500
TK-PK130-3Y480-FL	277/480V	Three Phase Wye	L-N	350	44	940	1200
			L-G	350	800	1150	1200
			N-G	350	770	1000	1200
			L-L	700	87	1880	2500
TK-PK130-3Y600-FL	347/600V	Three Phase Wye	L-N	440	45	1020	1500
			L-G	440	1010	1402	1500
			N-G	440	972	1086	2500
			L-L	880	86	2104	2500
TK-PK130-240NN-FL	240V	Three Phase Delta (NN)	L-G	275	435	595	1000
			L-L	275	82	800	1200
TK-PK130-480NN-FL	480V	Three Phase Delta (NN)	L-G	550	1136	1150	1800
			L-L	550	86	1120	1800
TK-PK130-600NN-FL	600V	Three Phase Delta (NN)	L-G	680	1288	1297	2000
			L-L	680	86	1413	2500



All tests performed with 6" (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.