Total Protection Solutions™

PanelTrack® SlimLine

System Features



- Protects facilities and equipment against the harmful effects of lightning strikes and internally generated electrical transients
- Includes pre-wired pigtail conductors to streamline installation
- Fail-safe design
- Dual Component Level Fusing (CLF) provides over-current plus thermal protection for added safety
- UL 1449 3rd Edition
- Small, compact footprint - makes installation flexible
- 10-Year Unlimited Free Replacement Warranty
- Optional factory installed Din-Rail mounting clips

Product Specifications

General Specifications

Maximum Rated Surge Current: 40kA per phase (80kA for PK080S)
Application: ANSI/IEEE C62.41 Location C, B & A. Ideal for distribution panels, branch panels and OEM applications
Design: Ultra compact, fail-safe design with dual component-level fusing
Warranty: 10-Year Unlimited Free Replacement
Safety Listing: UL 1449 3rd Edition

Electrical Specifications

Modes of Protection: All modes. L-N, L-L, L-G & N-G (discrete protection on L-N & N-G for 40kA per phase models)
Input Power Frequency: 40-440 Hz
Response Time: < 1 nanosecond
Standard Monitoring: Status indicator light
Short Circuit Current Rating (SCCR): 100kAIC for all units except for the 1P240, 3Y380, 3Y415, 3Y480, 3D240, 380NN, and 480NN, which are all 65kAIC. Type 1 SPDs do not require any upstream over current protection. Type 2 SPDs must be installed behind a 20 amp maximum breaker.

Mechanical Specifications

Dimensions: 5.60"H x 2.90"W x 1.90"D (142mm H x 73.7mm W x 48.3mm D)
Enclosure: High-impact non-metallic Nema 1. Not recommended for direct sunlight exposure
Connection: Pre-wired with 18" (457 mm) of #14 AWG (2.08 mm²) conductor
Mounting: Comes with a threaded 1/2" (15 mm) hub for easy knockout mounting, L-shaped bracket for stand-alone wall mounting or din-rail mounting
Operating Environment: -40° C to 70° C (-40° F to 160° F); 5% to 95% non-condensing humidity
Weight: 2.25 lbs (1.0kg)

FREE REPLACEMENT
★ 10 YEAR ★ WARRANTY ★ 10 YEAR ★

UL US
UL 1449

PanelTrack SlimLine

Model Number	Description	SPD Type 1	Surge Rating
TK-PK040S-1P120-L	120VAC, 1ø 2-wire + grd	1	40kA/phase
TK-PK040S-1P240-L	240VAC, 1ø 2-wire + grd	2	40kA/phase
TK-PK040S-1S240-L	120/240VAC, 1ø 3-wire + grd	1	40kA/phase
TK-PK080S-1S240-L	120/240VAC, 1ø 3-wire + grd	1	80kA/phase
TK-PK040S-3Y208-L	120/208VAC, 3ø 4-wire + grd	1	40kA/phase
TK-PK040S-3Y380-L	220/380VAC, 3ø 4-wire + grd	2	40kA/phase
TK-PK040S-3Y415-L	240/415VAC, 3ø 4-wire + grd	2	40kA/phase
TK-PK040S-3Y480-L	277/480VAC, 3ø 4-wire + grd	2	40kA/phase
TK-PK040S-3D240-L	120/240VAC, 3ø high-leg DELTA 4-wire + grd	2	40kA/phase
TK-PK040S-240NN-LA[2]	240VAC, 3ø 3-wire + grd	1	40kA/phase
TK-PK040S-380NN-LA[2]	380VAC, 3ø 3-wire + grd	2	40kA/phase
TK-PK040S-480NN-LA[2]	480VAC, 3ø 3-wire + grd	2	40kA/phase

*Use In Canada
Add Suffix "-CAN" for cUL listing for use in Canada (all units Type 2 with cUL listing).

[2] Delta units come standard with Form C dry relay contacts for remote monitoring

Available Options

Order as a Suffix *Example: TK-PK040S-3Y208-LA-DIN*

- Form C dry relay contacts for remote monitoring: add suffix "-A" (for indoor applications only)
- Din-rail mounting clips: add suffix "-DIN" (Factory installed)

Order as a separate item

- Flush-mount cover for installation on recessed panels: PKS-FMP

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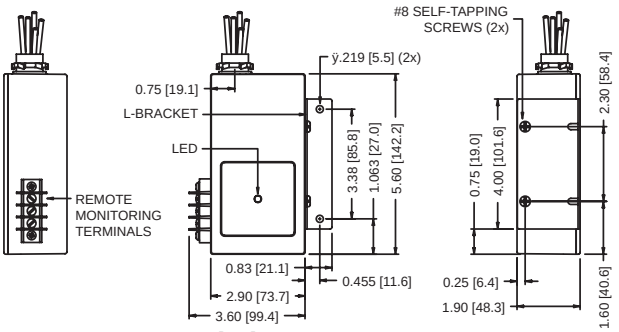
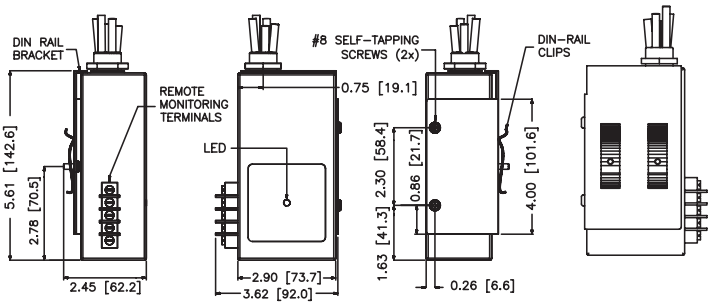


All measurements in inches [mm]

Shown with L-Bracket



All measurements in inches [mm]

Shown with DIN-RAIL Bracket

AVAILABLE CONFIGURATIONS

						ANSI/IEEE C62.41.1-2002, C62.41.2-2002, & C62.45-2002 Measured Limited Voltage			VPR Data
						ETF Models	All Models	All Models	UL 1449 3rd Edition
Model Number	**System Voltage**	**System Configuration**	**Surge Rating (per phase)**	**Protection Mode**	**MCOV**	**A3 Ring Wave 6kV, 200A 90° Phase Angle**	**B3/C1 Impulse Wave 6kV, 3kA 90° Phase Angle**	**C3 Impulse Wave 20kV, 10kA 90° Phase Angle**	**Voltage Protection Ratings**
TK-PK040S-1P120-L	120V	1-Phase 2-wire+grnd	40kA	L-N N-G	150 150	374 476	590 604	1015 1110	600 700
TK-PK040S-1P240-L	240V	1-Phase 2-wire+grnd	40kA	L-N N-G	300 300	760 767	920 940	1330 1400	1000 1000
TK-PK040S-1S240-L	120/240V	1-Phase 3-wire+grnd	40kA	L-N N-G	150 150	374 476	590 604	1015 1110	600 600
TK-PK080S-1S240-L	120/240V	1-Phase 3-wire+grnd	80kA	L-N L-G N-G	150 150 150	374 375 476	590 595 604	1015 1015 1110	600 600 600
TK-PK040S-3Y208-L	120/208V	3-Phase WYE 4-wire+grnd	40kA	L-N N-G	150 150	450 423	580 560	953 950	600 600
TK-PK040S-3Y380-L	220/380V	3-Phase WYE 4-wire+grnd	40kA	L-N N-G	300 300	762 793	933 930	1350 1370	1000 1000
TK-PK040S-3Y415-L	240/415V	3-Phase WYE 4-wire+grnd	40kA	L-N N-G	320 320	767 774	953 940	1350 1370	1000 1000
TK-PK040S-3Y480-L	277/480V	3-Phase WYE 4-wire+grnd	40kA	L-N N-G	320 320	767 774	953 940	1350 1370	1000 1000
TK-PK040S-3D240-L	120/240V	3-Phase high-leg DELTA 4-wire+grnd	40kA	L-N H-N N-G	150 300 150	550 793 550	680 930 680	1073 1370 1073	600 1000 1000
TK-PK040S-240NN-LA*	240V	3-Phase DELTA 3-wire+grnd	40kA	L-L L-G	300 300	778 799	994 988	1540 1587	1000 1000
TK-PK040S-380NN-LA*	380V	3-Phase DELTA 3-wire+grnd	40kA	L-L L-G	600 600	1493 1475	1737 1715	2277 2247	2000 2000
TK-PK040S-480NN-LA*	480V	3-Phase DELTA 3-wire+grnd	40kA	L-L L-G	640 640	1553 1600	1791 1812	2457 2483	2000 2000

All tests performed with 6" (152 mm) lead length, postive 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.

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Specifications subject to change without notice. See web site, www.TPSurge.com for latest revisions.

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