Total Protection Solutions™

PanelTrack® Residential SlimLine

System Features

- Protects sensitive electronics and appliances 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

Product Specifications

General Specifications

Maximum Rated Surge Current: 80kA per phase (40kA for RK040S)
Application: ANSI/IEEE C62.41 Location C, B & A. Ideal for residential service entrance and branch panel applications
Design: Ultra compact, fail-safe design with dual component-level fusing
Warranty: 10-Year Unlimited Free Replacement
Safety Listing: UL 1449 3rd Edition. Type 1 SPD. For use in Canada, add suffix "-CAN" for cUL listing. All cUL listed units are type 2.

Electrical Specifications

Modes of Protection: All modes. L-N, L-L, L-G & N-G (Discrete Protection on L-N, L-G & N-G with RK080S)
Input Power Frequency: 40-440 Hz
Response Time: < 1 nanosecond
Standard Monitoring: Status indicator light
Short Circuit Current Rating (SCCR):100kAIC short circuit current rating for all units

Mechanical Specifications

Dimensions: 5.60"H x 2.90"W x 1.90"D (142 mm H x 73.7 mm W x 48.3 mm 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 or L-shaped bracket for stand-alone wall 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)

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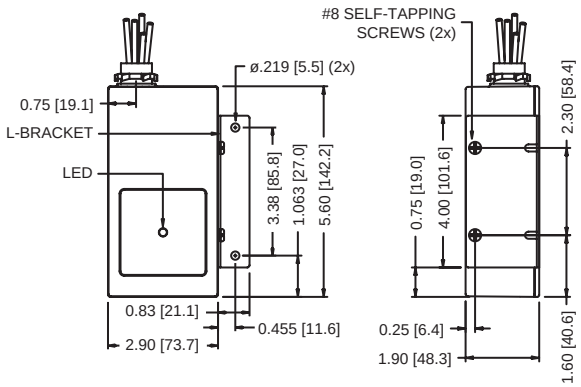
Model Number	Description	Surge Rating
TK-RK040S-1S240-L	120/240VAC, 1ø 3-wire + grd	40kA/phase
TK-RK080S-1S240-L	120/240VAC, 1ø 2-wire + grd	80kA/phase

Available Option

- Flush-mount cover for installation on recessed panels: RKS-FMP (order as a separate item)



All measurements in inches [mm]

Available Configurations

Model Number	System Voltage	System Configuration	Surge Rating (per phase)	Protection Mode	MCOV	ANSI/IEEE C62.41.1-2002, C62.41.2-2002, & C62.45-2002 Measured Limited Voltage: ETF Models A3 Ring Wave 6kV, 200A 90° Phase Angle	All Models B3/C1 Impulse Wave 6kV, 3kA 90° Phase Angle	All Models C3 Impulse Wave 20kV, 10kA 90° Phase Angle	VPR Data UL 1449 2nd Edition/ UL 1449 3rd Revision Voltage Protection Ratings
TK-RK040S-1S240-L	120/240V	1-Phase 3-wire+grnd	40kA	L-N	150	374	590	1015	400/600
				N-G	150	476	604	1110	400/600
TK-RK080S-1S240-L	120/240V	1-Phase 3-wire+grnd	80kA	L-N	150	374	590	1015	500/600
				L-G	150	375	595	1015	500/600
				N-G	150	476	604	1110	500/600

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.TPSurge.com for latest revisions.

FREE REPLACEMENT ★ 10 YEAR ★ WARRANTY ★ 10 YEAR ★

UL US UL 1449

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For Technical Support:
TEL: 800.647.1911 www.TPSsurge.com