

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
- Internal copper bus conduction path to minimize system impedances, reducing let-through voltage and increasing reliability
- Status indicating lights and Form "C" dry relay contacts for remote monitoring
- Single pulse tested at independent 3rd party lab
- Hybrid design using MOV and Tracking Filter
- UL 1283 Tracking Filter
- Small, Compact Footprint – makes installation flexible
- 25-Year Unlimited Free Replacement Warranty
- Enhanced Transient Filter option on certain models

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

Maximum Rated Surge Current: 160kA per phase; 80kA per mode

Nominal Discharge Surge Current In: 20kA

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

Design: Compact design for easy installation

Warranty: 25-Year Unlimited Free Replacement

Safety Listing: UL 1449 3rd Ed., Type 2, and UL 1283

ELECTRICAL SPECIFICATIONS

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

Input Power Frequency: 40-440Hz (47-64 Hz with enhanced filter option)

Response Time: < 1 nanosecond

Standard Monitoring: Status indicator lights (one per phase); Form C dry relay contacts for suppressor status

Short Circuit Current Rating: 65 kAIC using a 20A max breaker

MECHANICAL SPECIFICATIONS

Dimensions (approx.): 7"H x 7"W x 5"D

(186 mm H x 186 mm W x 125 mm D)

Enclosure: High-impact non-metallic, NEMA 4X (IP 56)

Connection: Pre-wired with 24" (610 mm) #10 AWG conductor (5.26 mm²)

Mounting: Multi-point mounting feet

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

5% to 95% non-condensing humidity

Weight: 12.7 lbs. (5.8 kg)

AVAILABLE CONFIGURATIONS

| Model Number | Description |
|----------------|--|
| TK-TT160-1P120 | 120VAC, 1 ϕ , 2-wire + grd |
| TK-TT160-1P240 | 240VAC, 1 ϕ , 2-wire + grd |
| TK-TT160-1S240 | 120/240VAC, 1 ϕ SPLIT-PHASE, 3-wire + grd |
| TK-TT160-3Y208 | 120/208VAC, 3 ϕ WYE, 4-wire + grd |
| TK-TT160-3Y380 | 220/380VAC, 3 ϕ WYE, 4-wire + grd |
| TK-TT160-3Y600 | 347/600VAC, 3 ϕ WYE, 4-wire + grd |
| TK-TT160-3Y415 | 240/415VAC, 3 ϕ WYE, 4-wire + grd |
| TK-TT160-3Y480 | 277/480VAC, 3 ϕ WYE, 4-wire + grd |
| TK-TT160-3D240 | 120/240VAC, 3 ϕ high-leg DELTA, 4-wire + grd (B phase must be 208V) |
| TK-TT160-240NN | 240VAC, 3 ϕ DELTA, 3-wire + grd |
| TK-TT160-380NN | 380VAC, 3 ϕ DELTA, 3 wire + grd |
| TK-TT160-480NN | 480VAC, 3 ϕ DELTA, 3-wire + grd |

AVAILABLE OPTIONS

- Enhanced Transient Filter (ETF): add suffix "-F" to the standard part number: *Example: TK-TT 160-3Y208-F*. Not available for 3Y600; 3Y480; 3Y415; 3Y380, 240NN, 380NN and 480NN models.

EMI / RFI FILTER ATTENUATION – MIL STANDARD 220B

| Frequency | Attenuation |
|----------------------------|-----------------|
| 1kHz | 1 dB |
| 10kHz | 14 dB |
| 100kHz | 35 dB |
| 1MHz | 18 dB |
| 10MHz | 3 dB |
| 100MHz | 2 dB |
| Max. Attenuation Frequency | 57 dB @ 153 kHz |



