

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: 50kA per phase; 25kA 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-TT050-1P120	120VAC, 1 ϕ , 2-wire + grd
TK-TT050-1P240	240VAC, 1 ϕ , 2-wire + grd
TK-TT050-1S240	120/240VAC, 1 ϕ SPLIT-PHASE, 3-wire + grd
TK-TT050-3Y208	120/208VAC, 3 ϕ WYE, 4-wire + grd
TK-TT050-3Y380	220/380VAC, 3 ϕ WYE, 4-wire + grd
TK-TT050-3Y600	347/600VAC, 3 ϕ WYE, 4-wire + grd
TK-TT050-3Y415	240/415VAC, 3 ϕ WYE, 4-wire + grd
TK-TT050-3Y480	277/480VAC, 3 ϕ WYE, 4-wire + grd
TK-TT050-3D240	120/240VAC, 3 ϕ high-leg DELTA, 4-wire + grd (B phase must be 208V)
TK-TT050-240NN	240VAC, 3 ϕ DELTA, 3-wire + grd
TK-TT050-380NN	380VAC, 3 ϕ DELTA, 3 wire + grd
TK-TT050-480NN	480VAC, 3 ϕ DELTA, 3-wire + grd

AVAILABLE OPTIONS

- Enhanced Transient Filter (ETF): add suffix "-F" to the standard part number: *Example: TK-TT 050-3Y208-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



