

## SYSTEM FEATURES



- Providing the highest level of protection with the lowest let-through voltage in the industry
- Fail-Safe Design
- Optional Component Level Fusing
- Single pulse tested at independent 3rd party lab
- Form C dry relay contacts and audible alarm with silence button
- Two suppression technologies: MOV and all mode Enhanced Transient Filter
- UL 1283 Tracking Filter
- Ultra, Compact Footprint – efficiency and performance
- 30-Year Unlimited Free Replacement Warranty
- Weatherproof Nema 4 steel enclosure

## PRODUCT SPECIFICATIONS

### GENERAL SPECIFICATIONS

**Maximum Rated Surge Current:** 120kA per phase; 60kA per mode  
**Application:** ANSI/IEEE C62.41 Location C, B & A. Ideal for distribution panels, branch panels and critical loads  
**Design:** Optimum performing parallel hybrid with component level fusing  
**Warranty:** 30-Year Unlimited Free Replacement  
**Safety Listing:** UL 1449 3rd Ed., Type 1 for Type 1 & Type 2 locations 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 & one service LED); Form C dry relay contacts for suppressor status; Audible alarm with silence button  
**Short Circuit Current Rating:** 200 kAIC on all units.  
 No upstream over-current protection required on CLF unit.  
 Non CLF units require 60A Max fuse or breaker.

### MECHANICAL SPECIFICATIONS

**Dimensions (approx.):** 11.50”H x 8.28”W x 6.28”D (292 mm H x 210 mm W x 160 mm D)  
**Enclosure:** Steel. Weather-proof. NEMA 4 (IP 56)  
**Connection:** Hardwired via internal lugs #10 AWG-#2 AWG (5.26 mm2 –26.7 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 lbs. (5.4 kg)

### AVAILABLE CONFIGURATIONS

Model Number	Description
TK-ST120-1P120	120VAC, 1Ø 2-wire + grd
TK-ST120-1P240	240VAC, 1Ø 2-wire + grd
TK-ST120-1S240	120/240VAC, 1Ø SPLIT-PHASE, 3-wire + grd
TK-ST120-3Y208	120/208VAC, 3Ø WYE, 4-wire + grd
TK-ST120-3Y380	220/380VAC, 3Ø WYE, 4-wire + grd
TK-ST120-3Y415	240/415VAC, 3Ø WYE, 4-wire + grd
TK-ST120-3Y480	277/480VAC, 3Ø WYE, 4-wire + grd
TK-ST120-3Y600	347/600VAC, 3Ø WYE, 4-wire + grd
TK-ST120-3D240	120/240VAC, 3Ø high-leg DELTA, 4-wire + grd (B phase must be 208V)
TK-ST120-240NN	240VAC, 3Ø DELTA, 3-wire + grd
TK-ST120-380NN	380VAC, 3Ø DELTA, 3 wire + grd
TK-ST120-480NN	480VAC, 3Ø DELTA, 3-wire + grd
TK-ST120-600NN	600VAC, 3Ø DELTA, 3-wire + grd

### AVAILABLE OPTIONS

**Order as a Suffix** Example: TK- ST120-3Y208-FL

- Enhanced Transient Filter (ETF): add suffix “-F”
- Component Level Fusing (CLF): add suffix “-L”
- Surge Counter: add suffix “-B”
- NEMA 4X Stainless Steel Enclosure: add suffix “-XX”

**Order as a Separate Item** (30 Year Warranty)

- **Non-Fused Disconnect Switch:**  
 DN-200KAIC-60A-3/4 (for Nema 4 steel)  
 DN-200KAIC-60A-XX-3/4 (for Nema 4 stainless steel)

### EMI / RFI FILTER ATTENUATION – MIL STANDARD 220B

Frequency	Attenuation
1kHz	2 dB
10kHz	17 dB
100kHz	40 dB
1MHz	18 dB
10MHz	6 dB
100MHz	1 dB
Max. Attenuation Frequency	41 dB @ 106 kHz



