

## STV100K Series - Surge Protective Devices

The STV100K Series hardwired surge protective devices are designed for installation at the service entrance, branch panel or a dedicated sensitive electronic load. These units feature all mode protection, LED and audible alarm status indication, sinewave tracking and form C dry contacts. The STV100K Series also contains the highest levels of safety built into the product including thermal fusing and a fault current fusing level of 100 kAIC.

## **Applications**

- Distribution Panels (up to 800 A)
- Branch, Lighting and Control Panels
- Factory Automation Installations
- Dedicated Industrial Equipment

#### **Features**

- 100,000 Amps peak current rating provides all mode protection against severe transients
- Low clamping levels for more effective protection
- 100 kAIC fault current fusing level provides safety and NEC conformance
- LED status, audible alarms and form C dry contacts
- Compact, rugged metal
- Ten year limited warranty

### **Certifications and Compliances**

- c UL) us Listed
  - UL 1449, type 2 locations
  - UL Listed/NEMA type 12 enclosure
  - CSA C22.2 No. 8, CSA TI I-IIB, TI A-24
- ABS Type Approval (Pending)
- RoHS Compliant

#### **Related Products**

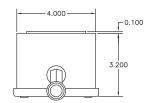
- Power Conditioners
- UPS
- Drive Isolation and K-Factor Transformers

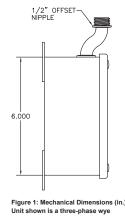


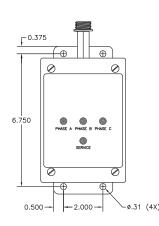
## **Selection Table**

Catalog Number	Input Voltage							
STV100K10S	120/240 V	Single Phase 3 Wire + Ground						
STV100K10Y	208Y/120 V	Three Phase Wye 4 Wire + Ground						
STV100K10N	120 V	Single Phase 2 Wire + Ground						
STV100K24L	240 V	Single Phase 2 Wire + Ground						
STV100K23Y	400Y/230 V	Three Phase Wye 4 Wire + Ground						
STV100K27Y	480Y/277 V	Three Phase Wye 4 Wire + Ground						
STV100K24D	240 V	Three Phase Delta 3 Wire + Ground						
STV100K48D	480 V	Three Phase Delta 3 Wire + Ground						
STV100K10D4	240/120 CT	Three Phase Delta 4 Wire + Ground						
STV100K24D4	480/240 CT	Three Phase Delta 4 Wire + Ground						

## Dimensional Diagram - in. (mm)









# STV100K Series - Surge Protective Devices

# Specifications

	Catalog Number												
Description	STV100K10S	STV100K10N	STV100K24L	STV100K10Y	STV100K23Y	STV100K27Y	STV100K24D	STV100K48D	STV100K10D4	STV100K24D4			
Nominal Input Vac	120/240 V	120 V	240 V	208Y/120 V	400Y/230 V	480Y/277 V	240 V	480 V	240 D/120 V	480 D/240 V			
System Configuration	1Ph, 3 W + G	1F 2 W	,	3Ph Wye, 4 W + G			3Ph Delta, 3 W + G		3Ph Delta High Leg, 4 W + G				
Maximum Continuous Operating Voltage (MCOV)	125% of the nominal level for 120 V; 115% for all other voltages												
Line Frequency	47-63 Hz												
Response Time	< 0.5 nanoseconds												
Short Circuit Current Rating (SCCR)	100 kA												
Fusing	Thermal and Fault Current												
Nominal Discharge Current Rating	20 kA												
Modes of Protection	All Mode: L - N, L - L, L - G, N - G												
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)												
Operating Humidity	0% to 95% Non-condensing												
Noise Attenuation	40 dB max.												
Dimensions – W x D x H – in. (mm)	6.00 x 4.00 x 3.20 (152.4 x 101.6 x 81.3)												
Net Weight – lbs (kg)	8.0 (3.63) max.												
Enclosure	Metal, UL Listed/NEMA Type 12 Enclosure												
Connection/ Mounting Type	Parallel/Flange												
Status Indication	Red and green LED status indicators, audible alarm, form C contacts												
Warranty	10 year limited warranty												
			UL 1449, T	ype 2 Voltage F	Protection Rati	ngs (VPRs) Vpe	eak						
Line to Neutral	600 V	600 V	N/A	600 V	1200 V	1200 V	N/A	N/A	600 V	1200 V			
Line to Line	1000 V	N/A	1000 V	1000 V	1800 V	1800 V	1000 V	2000 V	1000 V	1800 V			
Line to Ground	700 V	700 V	1200 V	700 V	1200 V	1200 V	1200 V	1800 V	700 V	1200 V			
Neutral to Ground	600 V	600 V	N/A	600 V	1200 V	1000 V	N/A	N/A	600 V	1200 V			
High Leg to Neutral	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1200 V	1800 V			
High Leg to Line	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1200 V	1800 V			
High Leg to Ground	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1800 V	3000 V			
				Peak Surge	Current Capab	ility							
Per Phase	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA			
Line to Neutral	50 kA	50 kA	N/A	50 kA	50 kA	50 kA	N/A	N/A	50 kA	50 kA			
Line to Line	50 kA	N/A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA			
Line to Ground	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA			
Neutral to Ground	50 kA	50 kA	N/A	50 kA	50 kA	50 kA	N/A	N/A	50 kA	50 kA			