

STV 200/400K Series - Surge Protective Devices

SolaHD STV 200/400K Series offers continuous protection from damaging voltage transients and electrical noise commonly found at the service entrance or distribution panel. The modular design of the STV 200/400K allows for installation flexibility and its' robust design allows for installation in the most severe exposure locations. They are capable of handling the high-impulse, potentially damaging transients commonly found at the service entrance or distribution panels. The modular design of the STV 200/400K allows for installation flexibility. Its robust design allows for placement in the most severe exposure locations.

The STV 200/400K utilizes circuitry to monitor the status of all protection modes, including neutral to ground. Should protection be unavailable in any mode, the Green LED will be extinguished, and the Red LED will be illuminated. In addition, high isolation form C dry contacts provide remote monitoring of suppression system failure, under voltage, phase and power loss. The STV 200/400K suppression integrity monitoring indicates failure for both shorted or opened suppression components.

These devices are designed to meet UL 1449 (third edition), UL 1283 and cUL Listed. These units are ANSI/IEEE C62.11, C62.41, C62.45 Categories A, B, and C3 tested. They are built to meet your unique requirements, and are available in hardwire, three phase configuration. They are designed for years of trouble free operation and require little or no operator intervention after installation.

Features

- Modular design allows for flexibility
- Surge current capacity of 200 to 400 kA per phase
- Industry's highest surge current repeatability
- All modes transient protection (L-N, L-G, and N-G)
- Form C contact and audible alarm status indications
- Internal/external monitoring, including neutral to ground
- UL rated 200 kAIC with component level fusing for safe operation
- EMI/RFI Filtering
- UL 1449 (third edition), UL 1283, and cUL Listed
- ANSI/IEEE C62.11, C62.41, C62.45 Categories A, B, and C3 tested
- Tested to NEMA LS1, ISO 9001
- NEMA 12 enclosure, available options NEMA 3R, 4, and 4X
- Optional rotary disconnect, transient counter, and remote monitor panel
- 5 Year Limited Warranty



Applications

The STV 200/400K Series can be a facility-wide product family and may be installed from service entrances to distribution panels to branch panels.

- Industrial Plants
- Commercial Buildings
- Institutional Facilities
- Any facility that has an environment with electronics based equipment

Related Products

- Power Conditioners
- Uninterruptible Power System
- Transformers
- STV 25K, STV 100K, STF, STFV and STC Series

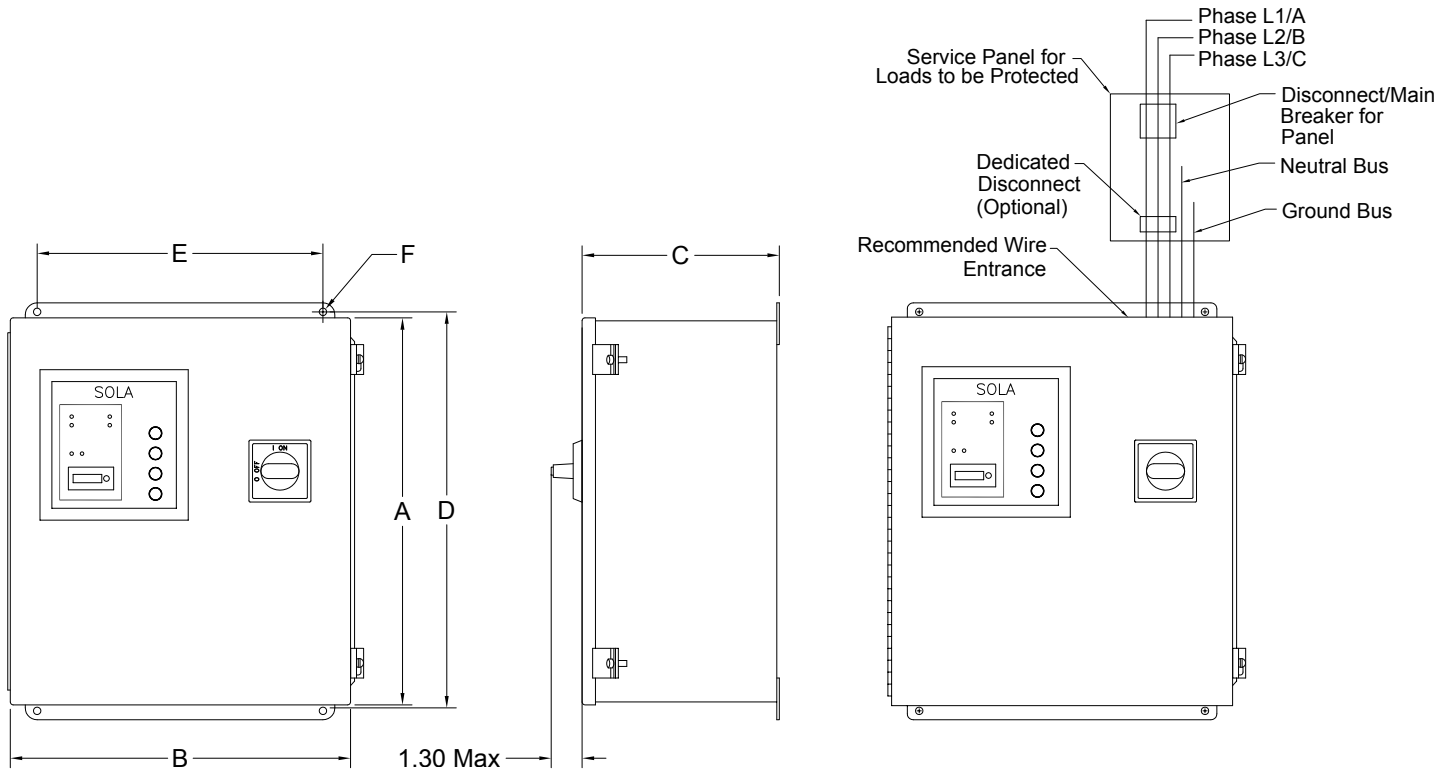
Selection Table

Catalog Number	Input Voltage	
STV 400K-10Y	120/208 V	Three Phase Wye 4 wire + Ground
STV 200K-10Y	120/208V	Three Phase Wye 4 wire + Ground
STV 400K-27Y	277/480 V	Three Phase Wye 4 wire + Ground
STV 200K-27Y	277/480 V	Three Phase Wye 4 wire + Ground
STV 400K-48D	480 V	Three Phase Δ 3 wire + Ground
STV 200K-48D	480 V	Three Phase Δ 3wire + Ground

STV 200/400K Specifications

Description	Catalog Number					
	STV 200K-10Y	STV 200K-27Y	STV 200K-48D	STV 400K-10Y	STV 400K-27Y	STV 400K-48D
Input Vac	120Y/208 V	277Y/480 V	480 V	120Y/208 V	277Y/480 V	480 V
	Three Phase Wye, 4 W + G	Three Phase Wye, 4 W + G	Three Phase Delta, 3 W + G	Three Phase Wye, 4 W + G	Three Phase Wye, 4 W + G	Three Phase Delta, 3 W + G
Maximum Continuous Operating Voltage (MCOV)	120 V = 125%, All others voltages 115%					
Line Frequency	47-63 Hz					
Connection/ Mounting Type	Internally connected/Wall Mounted (Mounting hardware 1/4 in.)					
Enclosure	NEMA 12 (NEMA 3R, 4, 4x optional)					
Modes of Protection	All Modes: L-N, L-L, L-G, N-G					
Safety Agency Approvals	UL 1449 3rd Edition, UL 1283, cUL					
UL 1449 (2nd Edition) Suppressor Classification						
L-N	400 V	700 V	N/A	400 V	700 V	N/A
L-L	700 V	1,500 V	1,500 V	700 V	1,500 V	1,500 V
L-G	400 V	700 V	1,500 V	400 V	700 V	1,500 V
N-G	400 V	700 V	N/A	400 V	700 V	N/A
AIG Rating	200 kAIC					
Status Indication	LED's status indicator, Audible alarm, and Form 'C' contact only relay					
Response Time	< 0.5 nsec.					
Operating Temperature	-40°C to +50°C					
Operating Humidity	0% to 95% Non-condensing					
Noise Attenuation	50 dB Maximum					
Circuit Ampacity Limitations						
Per Phase	200 kA	200 kA	200 kA	400 kA	400 kA	400 kA
Line to Neutral	100 kA	100 kA	N/A	200 kA	200 kA	N/A
Line to Line	100 kA	100 kA	100 kA	200 kA	200 kA	200 kA
Line to Ground	100 kA	100 kA	100 kA	200 kA	200 kA	200 kA
Neutral to Ground	100 kA	100 kA	N/A	200 kA	200 kA	N/A
Warranty	5 year limited warranty					

Dimensional Drawings



Dimensional & Wiring Specifications

STV 200/400K Series											
Catalog Number	Dimensions (inches)						Weight lbs (kg)	Suggested Breaker Size	Suggested Wire Size (AWG)	Allowable Breaker Range	Allowable Wire Range
	A	B	C	D	E	F					
STV 200K	16.25	14.25	8.25	16.75	12	.31	35 (15.88)	40 A	#8	15 A-100 A	#14-#2
STV 400K	16.25	14.25	8.25	16.75	12	.31	42 (19.05)	100 A	#2	15 A-100 A	#14-#2

STV 200/400K Series with Rotary Disconnect											
Catalog Number	Dimensions (inches)						Weight lbs (kg)	Suggested Breaker Size	Suggested Wire Size (AWG)	Allowable Breaker Range	Allowable Wire Range
	A	B	C	D	E	F					
STV 200K	16.25	14.25	8.25	16.75	12	.31	38 (17.23)	40 A	#8	15 A-175 A	#14-2/0
STV 400K	16.25	14.25	8.25	16.75	12	.31	45 (20.41)	100 A	#2	15 A-175 A	#14-2/0