

Surge Protection Device (SPD) Transient Voltage Surge Suppressor (TVSS)



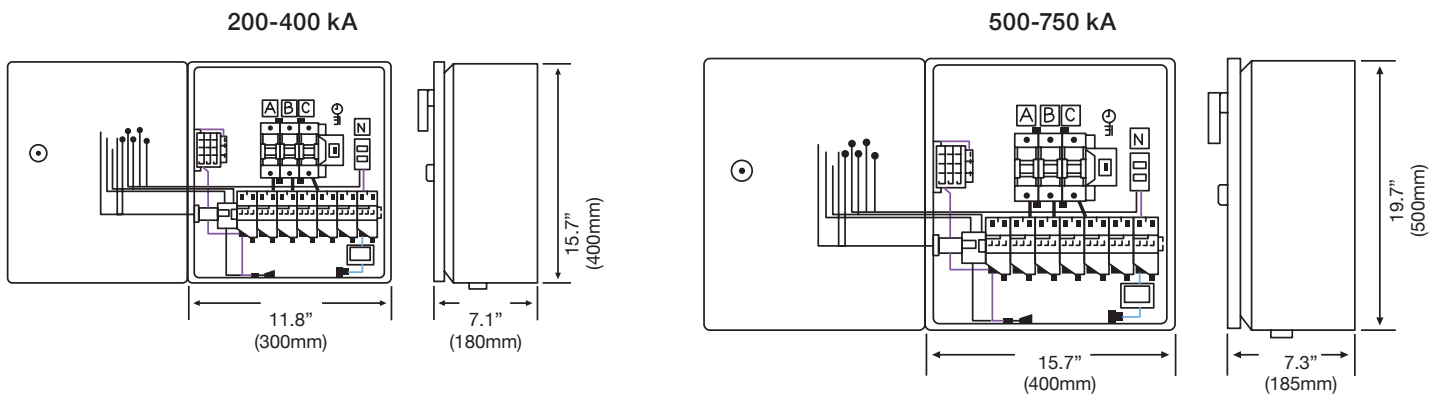
Features

- cUL 1449 5th edition type 1 listed
- I_{max}: 200-750 kA per phase
- Thermally fused metal oxide varistor suppression with gas-tube technology
- Real-time LED indicators, audible alarm with silence remote contacts, push to test & surge counter with reset
- Sine wave tracking
- Short circuit current rating (SCCR) 200 kAIC
- EMI/RFI noise filtration
- Field replaceable modules
- Available in 7 and 10 mode configurations
- NEMA 4 steel enclosure standard
- 10 year product warranty

Options

- NEMA 4X polycarbonate enclosure
- Integral disconnect
- NEMA 4X stainless steel
- 15 & 25 year warranty upgrade available on all versions

Dimensions



208V - 38kV Switchgear, Switchboards, & Compact Solutions • Generator & Load Bank Quick Connection
Paralleling, Transfer, Peak Shaving, Indoor/Outdoor Walk-In, & Skid-Mounted Solutions • Grounding Systems
Utility • Microgrids • Data Centers • Healthcare • Farming • Solar • Treatment Plants • Education • Manufacturing



**Surge Protection Device (SPD) 200-750 kA per phase
Transient Voltage Surge Suppressor (TVSS)**

Part Number Breakdown

XS5-x-x00-xxx-xM-x

- **Add on options:** I=Internal Disconnect, E=External Disconnect
- **Protection Modes:** A=All-Mode (10 mode), Leave Blank=7 Mode
- **NEMA Rating:** 04H=NEMA 4, 4XS=NEMA 4X Stainless, 4XP=NEMA 4X Polycarbonate
- **Surge Rating Identifier:** 2=200 kA/phase, 3=300 kA/phase, 4=400 kA/phase, 6=600 kA/phase, 7=750 kA/phase
- **Voltage Identifier:** 1=120/240 single phase, 2=120/208 3-phase Wye, 3=120/120/240 3-phase Hi-Leg Delta, 4=277/480 3-phase Wye, 5=480 3-phase Delta, 6=347/600 3-phase Wye, 7=600 3-phase Delta, 8=240/415 3-phase Wye, 9=240 3-phase Delta

Specifications

Description		XS5-1	XS5-2	XS5-3	XS5-4	XS5-5	XS5-6	XS5-7	XS5-8	XS5-9	
System Voltage	VAC	120/240	120/208	120/120/240	277/480	480	347/600	600	220/380	240	
System Wiring		3W+G (Single Phase)	4W+G (3-Phase Wye)	4W+G (3-Phase Hi-Leg Delta)	4W+G (3-Phase Wye)	3W+G (3-Phase Delta)	4W+G (3-Phase Wye)	3W+G (3-Phase Delta)	4W+G (3-Phase Wye)	3W+G (3-Phase Delta)	
Maximum Operating Voltage	MCOV (V)	L-N	150	150	150/320	320		550		275	
		N-G	150	150	150	320		550		275	
		L-G	150	150	150/320	320	550	550	750	275	275
		L-L	300	300	320	550	550	750	750	550	275
Voltage Protection Rating	VPR (V)	L-N	800	800	800/1,200	1,200		1,800		1,200	
		N-G	800	800	800/1,200	1,200		1,800		1,200	
		L-G	900	900	800/1,200	1,500	1,800	1,800	2,000	1,500	1,200
		L-L	1,800	1,800	1,800	2,000	3,000	3,000	2,000	2,000	2,000
Operating Current	Ic	<10 mA	<10 mA	<30 mA	<10 mA	<30 mA	<10 mA	<30 mA	<10 mA	<30 mA	
Follow Current	If									None	
Maximum Leakage Current	Ipe					1 mA					
Maximum Recommended Fuse if any	Rating					200 A					
Frequency	f					50/60/400 Hz					
Nominal Discharge Current per Mode	In (8/20 μs)					20 kA					
Maximum Discharge Current per Phase	I _{max} (8/20 μs)					200-750 kA (Depending on Model)					
Short Circuit Current Rating	SCCR					200 kA					
Standard's Compliance or Recognition						UL 1449 4th Edition Type 1 Listed, cUL Listed					
RFI Filtering						1283 Electromagnetic Interference Filter (-40 dB)					
Thermal Disconnecter						Internal to Each Component					
Overload Disconnecter						Internal to Each Device					
Failure Indicators						LED, Audible Alarm with Silence & Remote Signaling					
Operating Temperature						-40 to +185°F (-40 to +85°C)					
Housing-Enclosure Material						NEMA 4 Steel, NEMA 4X Stainless Steel or NEMA 4X Polycarbonate					
Mounting Type						Wall Mounting by Screws (Not Included)					
Environmental Rating						IP65					
NEMA Rating						NEMA 4/12, NEMA 4X					
Installation Location						Indoor/Outdoor					

208V - 38kV Switchgear, Switchboards, & Compact Solutions • Generator & Load Bank Quick Connection
Paralleling, Transfer, Peak Shaving, Indoor/Outdoor Walk-In, & Skid-Mounted Solutions • Grounding Systems
Utility • Microgrids • Data Centers • Healthcare • Farming • Solar • Treatment Plants • Education • Manufacturing
www.apl-power.com 1501 Veterans Memorial Pkwy E, Lafayette, Indiana 47905 Tel. (765) 446-2343