Surge Tracker™
ST3-100xxx
100 kA Per Phase / 100 kA Per Mode

An ILSCO® Company

Specifications

Protection Modes:	**3Yx,3Dx,1Sx:** L-N, N-G (Direct), L-G, L-L (Indirect)	**1Px:** L-N, N-G (Direct), L-G, L-L (Indirect) **3Nx,2Nx:** L-G (Direct), L-L (Indirect)
Surge Current Rating:	100 kA per phase / 100 kA per mode	
Nominal Discharge Current Rating (I_n):	20 kA	
Short Circuit Current Rating:	200 kA	

Physical Specifications

Enclosure	NEMA 4X Watertight
Conduit Size:	¾" Metal Hub
Temperature Rating:	-40°C to 80°C
Diagnostics:	Blue LED normally on, Red LED indicates the SPD needs to be replaced. If LED light is out check power.

Standards and Certifications

SPD Type:	Type 1/Type 2
Product Certifications	ANSI/UL 1449, 1283* and CSA C22.2 No. 269.1-14, No. 269.2-13* and No. 8-13* (VZCA, VZCA7, FOKY* & FOKY7*) *Type 2 SPDs only
Warranty:	***5 Year Limited Warranty***

Options

Option Code	SPD Type	Indicator LED	Audible Alarm	Dry Relay Contact	Advanced Surge Filtering
A	**1**	●	--	--	--
B	**1**	●	●	●	--
C	**2**	●	--	--	●
D	**2**	●	●	●	●

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MEASURED LIMITING VOLTAGE PERFORMANCE AND ELECTRICAL SPECIFICATIONS

ST3-100 Family Table

Voltage Code	Circuit Type	Mode	Maximum Continuous Operating Voltage (MCOV)	Voltage Protection Rating (VPR) A/B	Voltage Protection Rating (VPR) C/D	ANSI/IEEE C62.41.2, C62.45, C62.62 Measured Limiting Voltage Test Results (6" External Lead Length) Category A 30 Ω 100 kHz Ring Wave 2 kV / 67 A @ 270° Phase Angle C/D Suffix
ST3-1001P1x	120 V, Single Ø (2 wire + ground)	L-N N-G	150 150	700 700	700 700	43 V 339 V
ST3-1001P2x	240 V, Single Ø (2 wire + ground)	L-N N-G	320 320	1200 1200	1200 1200	44 V 716 V
ST3-1001S1x	120/240 V, Split Ø (3 wire + ground)	L-N N-G	150 150	700 700	700 700	43 V 339 V
ST3-1002N1x	120 V, Two Ø (2 wire + ground)	L-G L-L	150 150	600 1000	700 1200	440 V 54 V
ST3-1002N2x	240 V, Two Ø (2 wire + ground)	L-G L-L	300 300	1200 2000	1200 2500	1086 V 58 V
ST3-1003Y1x	120/208 V, 3ØY (4 wire + ground)	L-N N-G	150 150	700 700	700 700	43 V 339 V
ST3-1003Y2x	277/480 V, 3ØY (4 wire + ground)	L-N N-G	320 320	1200 1200	1200 1200	44 V 716 V
ST3-1003Y3x	600/347 V, 3ØY (4 wire + ground)	L-N N-G	420 420	1500 1500	NA NA	NA NA
ST3-1003D1x	120/240 V, 3Ø∆ (4 wire + ground)	L-N HL-N N-G	150 300 150	700 1200 700	600 1200 700	43 V 44 V 339 V
ST3-1003N4x	480 V, 3∅∆ (3 wire + ground)	L-G L-L	552 552	1800 4000	1800 4000	1663 V 57 V
ST3-1003N6x	600 V, 3∅∆ (3 wire + ground)	L-G L-L	690 690	3000 3000	NA NA	NA NA

Measured Limiting Voltage (MLV) Test Parameters: Positive polarity, Category A: Line power applied, Category C: No line power applied, Voltages are peak (±10%). Measured Limiting Voltages are measured from the insertion point on the sine wave to the peak of the surge for powered tests. Each MLV is the average of the phases within that mode of protection. In order to duplicate the results, the specified mode of protection must be tested in all phases (except N-G) and averaged together. *(*Individual mode or shot results may vary by more than 10%. *Scope Settings: Time Base = 10 microseconds per division, Sampling Rate = 2.5 Gigasamples/sec, Bandwidth = 400 MHz (200 MHz for Cat C), Probes: Tektronix P5100/P6015A. These settings help to assure MLV results are accurate).* ***All tests performed with 6" lead length (external to the enclosure), simulating actual installed performance.***