

Application: The ILSCO Surgency™ SE series is designed specifically as a commercial & industrial surge protective device (SPD) for installation at the electrical service entrance. More than a lightning arrester, the SE series limits damaging voltage spikes to harmless levels. These SE SPD's are ideal for protecting more rugged electrical equipment such as NEMA starters, motors, and MCC's.

Applicable Standards: ANSI/IEEE C62.72-2016, ANSI/IEEE C62.41.1 & C62.41.2-2002, ANSI/IEEE C62.62-2010 environments: Suitable for Categories: A, B & C (Most Severe Electrical Environments); UL 1449 (4th Edition) Surge Protective Devices, NFPA 780 & UL 96A Lightning Protection Systems; National Electric Code, Art. 285, 700.10 & 708.20; CSA C22.2 No. 269.1-14.

IEC Environments: Suitable for use in IEC 61643-11 environments as a Class 2 SPD

ANSI/UL 1449 SPD Types: Type 1 ("A" or "B" suffix)

Circuit Topology: Parallel configured Threshold Clamping Circuitry circuit design incorporating component-level thermal disconnection technology.

Protection Modes: Industry-best practice of L-N & N-G (4-mode) protection elements for installation at a facility's electrical service entrance.

Enclosure: NEMA 1, 2, 3, 3R, 3X, 4 and 4X Rated Standard Enclosure

Nominal Discharge Current (I_n) Rating: 20 kA (Complies with the requirements of NFPA 780 and UL 96A Master Label for Installation Requirements for Lightning Protection Systems)

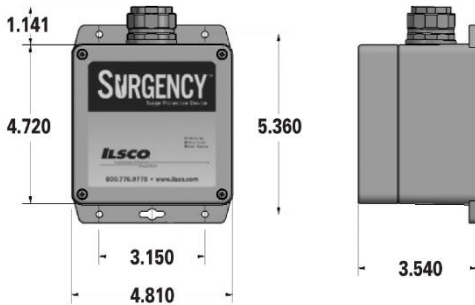
Diagnostics: Blue LED normally on, Red LED indicates the SPD needs to be replaced, and an off LED indicates power is off and/or the SPD needs to be replaced.

Product Certifications: Listed to ANSI/UL 1449 & CSA C22.2. No. 269.1-14 (VZCA & VZCA7, E484255)

Short Circuit Current Rating: 200 kA

Temperature Rating: -40 to 85°C

Warranty: 5 Years



Option Code *	UL/CSA Type	Indicator LED	Audible Alarm	Dry Relay Contact
A	1	•		
B	1	•	•	•

Catalog Number	Electrical Characteristics					Nominal Discharge Current	Short Circuit Rating (SCCR)	UL Voltage Protection Rating (MCOV)				Conduit Size (in.)
	Phase	Nominal Voltage	Per Mode Surge Current	AC Frequency	System			L-L	L-N	L-G	N-G	
SE-050-1S1X-A	1	120/240 V	50 kA	50/60 Hz	SPLIT	20 kA	200 kA	1200	600	1200	600	3/4
SE-050-1S1X-B								(300)	(150)	(300)	(150)	
SE-050-3Y1X-A	3	208Y/120 V	50 kA	50/60 Hz	WYE	20 kA	200 kA	1200	600	1200	600	3/4
SE-050-3Y1X-B								(300)	(150)	(300)	(150)	
SE-050-3Y2X-A	3	480Y/277 V	50 kA	50/60 Hz	WYE	20 kA	200 kA	2500	1200	2500	1200	3/4
SE-050-3Y2X-B								(640)	(320)	(320)	(320)	
SE-050-3N4X-A	3	480 V	50 kA	50/60 Hz	DELTA	20 kA	200 kA	4000	-	1800	-	3/4
SE-050-3N4X-B								(552)		(552)		
SE-050-3N2X-A	3	240 V	50 kA	50/60 Hz	DELTA	20 kA	200 kA	2500	-	1200	-	3/4
SE-050-3N2X-B								(300)		(300)		
SE-050-3N6X-A	3	600 V	50 kA	50/60 Hz	DELTA	20 kA	200 kA	3000	-	3000	-	3/4
SE-050-3N6X-B								(690)		(690)		
SE-050-3Y3X-A	3	347/600 V	50 kA	50/60 Hz	WYE	20 kA	200 kA	3000	1500	3000	1500	3/4
SE-050-3Y3X-B								(800)	(420)	(420)	(420)	