

SURGENCY™ Surge Protective Device - Type 1 Series SE - Service Entrance



TYPE SPD

Features

- Commercial & industrial up to 4-mode surge protection
- Compact NEMA polycarbonate enclosure
- Indicator LED, blue for proper operational status, red to replace, optional audible alarm and relay contacts
- Surge current strength up to 100 kA
- UL 1449 Listed with advanced safety features
- Five year warranty

Benefits

- First line of defense against externally generated surges
- Mounted outdoors or indoors external or internal to any electrical panel, non-submersible
- Easy monitoring of surge protection status
- Withstands severe lightning strikes, 100 kA unit provides extended service life
- Product longevity in the most demanding environments



Fig. 1

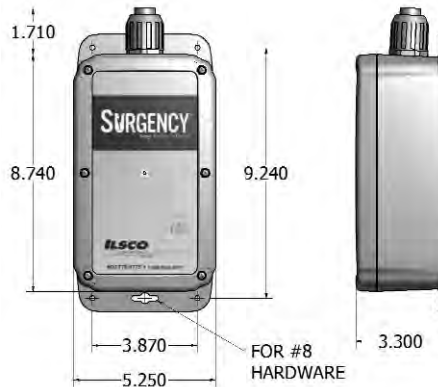


Fig. 2



Catalog Number	Figure Number	Electrical Characteristics				Nominal Voltage	Nominal Discharge Current	Short Circuit Current Rating (SCCR)	UL Voltage Protection Rating (VPR)				Conduit Size (in.)
		Phase	System	Per Mode Surge Current	AC Frequency				L-L	L-N	L-G	N-G	
SE-050-1S1X-*	1	1	SPLIT	50 kA	50/60 Hz	120/240 V	20 kA	200 kA	1200	600	1200	600	3/4
SE-100-1S1X-*	2	1	SPLIT	100 kA	50/60 Hz	120/240 V	20 kA	200 kA	1000	700	1000	700	3/4
SE-050-3Y1X-*	1	3	WYE	50 kA	50/60 Hz	208Y/120 V	20 kA	200 kA	1200	600	1200	600	3/4
SE-100-3Y1X-*	2	3	WYE	100 kA	50/60 Hz	208Y/120 V	20 kA	200 kA	1000	700	1000	700	3/4
SE-050-3Y2X-*	1	3	WYE	50 kA	50/60 Hz	480Y/277 V	20 kA	200 kA	2500	1200	2500	1200	3/4
SE-100-3Y2X-*	2	3	WYE	100 kA	50/60 Hz	480Y/277 V	20 kA	200 kA	2000	1200	2000	1200	3/4
SE-050-3N4X-*	1	3	DELTA	50 kA	50/60 Hz	480 V	20 kA	200 kA	4000	-	1800	-	3/4
SE-100-3N4X-*	2	3	DELTA	100 kA	50/60 Hz	480 V	20 kA	200 kA	4000	-	1800	-	3/4

Tested and Certified:

Type 1 SPDs (no filter) = UL 1449 (4th Edition), CSA C22.2 No. 269.1-14

Operating temperature range -40 to +150° F

Enclosure is rated to NEMA/UL Type 1, 2, 3, 3R, 3X, 4 and 4X

Type 1 = Permanently connected SPDs permitted to be installed between the secondary of the service transformer and the line side of the service equipment overcurrent device, as well as the load side, permitted to be installed without an external overcurrent protective device on the line side of the service entrance

Add on option code to catalog number

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

* Indicates package and option code - A, B

SURGENCY™ Surge Protective Device - Type 2 Series SE - Service Entrance



TYPE SPD

Features

- Commercial & industrial up to 4-mode surge protection
- Compact NEMA polycarbonate enclosure
- Indicator LED, blue for proper operational status, red to replace, optional audible alarm and relay contacts
- Surge current strength up to 100 kA
- UL 1283 electrical noise filter
- UL 1449 Listed with advanced safety features
- Five year warranty

Benefits

- First line of defense against externally generated surges
- Mounted outdoors or indoors external or internal to any electrical panel, non-submersible
- Easy monitoring of surge protection status
- Withstands severe lightning strikes, 100 kA unit provides extended service life
- Protects critical commercial and industrial equipment
- Product longevity in the most demanding environments

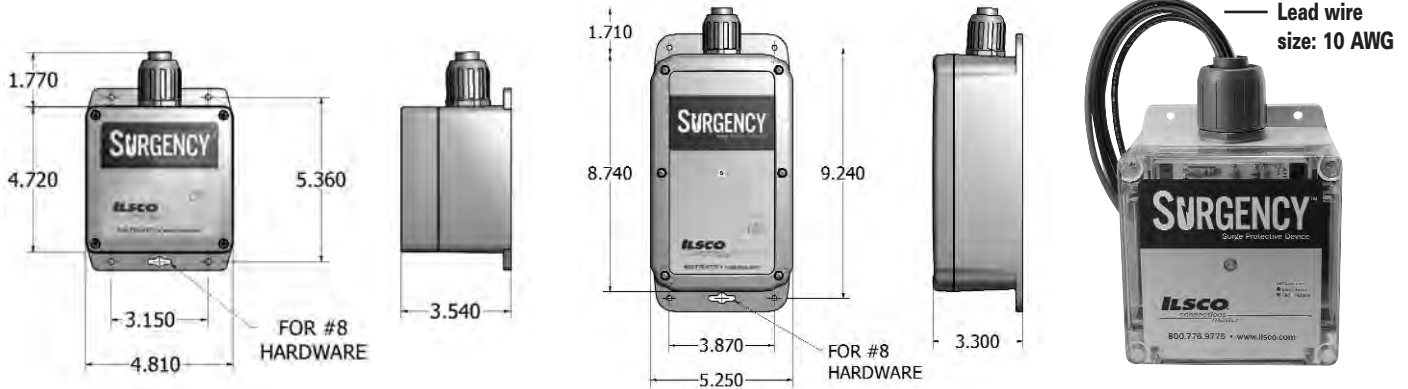


Fig. 1

Fig. 2

Catalog Number	Figure Number	Electrical Characteristics				Nominal Voltage	Nominal Discharge Current	Short Circuit Current Rating (SCCR)	UL Voltage Protection Rating (VPR)				Conduit Size (in.)
		Phase	System	Per Mode Surge Current	AC Frequency				L-L	L-N	L-G	N-G	
SE-050-1S1X-*	1	1	SPLIT	50 kA	50/60 Hz	120/240 V	20 kA	200 kA	1200	700	1200	600	3/4
SE-100-1S1X-*	2	1	SPLIT	100 kA	50/60 Hz	120/240 V	20 kA	200 kA	1200	700	1200	700	3/4
SE-050-3Y1X-*	1	3	WYE	50 kA	50/60 Hz	208Y/120 V	20 kA	200 kA	1200	700	1200	600	3/4
SE-100-3Y1X-*	2	3	WYE	100 kA	50/60 Hz	208Y/120 V	20 kA	200 kA	1200	700	1200	700	3/4
SE-050-3Y2X-*	1	3	WYE	50 kA	50/60 Hz	480Y/277 V	20 kA	200 kA	2500	1200	2500	1200	3/4
SE-100-3Y2X-*	2	3	WYE	100 kA	50/60 Hz	480Y/277 V	20 kA	200 kA	2500	1200	2500	1200	3/4
SE-050-3N4X-*	1	3	DELTA	50 kA	50/60 Hz	480 V	20 kA	200 kA	4000	-	1800	-	3/4
SE-100-3N4X-*	2	3	DELTA	100 kA	50/60 Hz	480 V	20 kA	200 kA	4000	-	1800	-	3/4

Tested and Certified:

Type 2 SPDs (filter) = UL 1449, UL 1283, CSA C22.2 No. 269.2-13, CSA C22.2 No. 8-13

Operating temperature range -40 to +150° F

Enclosure is rated to NEMA/UL Type 1, 2, 3, 3R, 3X, 4 and 4X

Type 2 = Permanently connected SPDs intended for installation on the load side of the service equipment overcurrent device; including SPDs located at the branch panel

Add on option code to catalog number

Option Code	UL/CSA Type	Indicator LED	Audible Alarm	Dry Relay Contact	Electrical Noise Filter†
C	2	•			•
D	2	•	•	•	•

* Indicates package and option code - C, or D

† Advanced UL 1283 rated electrical noise filter