Table 6.1: EMA SPDs

Service Voltage	Peak Surge Current Rating per Phase (kA)	NEMA 1 Cat. No.	NEMA 4X Stainless Steel Cat. No.
120/240 V, 1-phase, 3-wire + ground *[2]*	120 160 240 320 480	SSP01EMA12( ) SSP01EMA16( ) SSP01EMA24( ) SSP01EMA32( ) SSP01EMA48( )	SSP01EMA12S( ) SSP01EMA16S( ) SSP01EMA24S( )
208Y/120 V, 3-phase, 4-wire + ground *[3] [4] [2]* Wye	120 160 240 320 480	SSP02EMA12( ) SSP02EMA16( ) SSP02EMA24( ) SSP02EMA32( ) SSP02EMA48( )	SSP02EMA12S( ) SSP02EMA16S( ) SSP02EMA24S( )
240/120 V, 3-phase, 4-wire + ground *[2]* High-leg Delta	120 160 240 320 480	SSP03EMA12( ) SSP03EMA16( ) SSP03EMA24( ) SSP03EMA32( ) SSP03EMA48( )	SSP03EMA12S( ) SSP03EMA16S( ) SSP03EMA24S( ) — —
240 V, 3-phase, 3-wire + ground Delta	100 120 160 200 240 320 480	SSP06EMA12( ) SSP06EMA16( ) SSP06EMA24( ) SSP06EMA32( ) SSP06EMA48( )	SSP06EMA12S( ) SSP06EMA16S( ) SSP06EMA24S( )
480Y/277 V, 3-phase, 4-wire + ground *[4] [5] [2]* Wye	120 160 240 320 480	SSP04EMA12( ) SSP04EMA16( ) SSP04EMA24( ) SSP04EMA32( ) SSP04EMA48( )	SSP04EMA12S( ) SSP04EMA16S( ) SSP04EMA24S( )
480 V, 3-phase, 3-wire + ground *[6]* Delta	100 120 160 200 240 320 480	SSP05EMA12( ) SSP05EMA16( ) SSP05EMA24( ) SSP05EMA32( ) SSP05EMA48( )	SSP05EMA12S( ) SSP05EMA16S( ) SSP05EMA24S( )
600Y/347 V, 3-phase, 4-wire + ground, *[2] [4]* WYE	120 160 240 320 480	SSP08EMA12( ) SSP08EMA16( ) SSP08EMA24( ) SSP08EMA32( ) SSP08EMA48( )	SSP08EMA12S( ) SSP08EMA16S( ) SSP08EMA24S( )
600 V, 3-phase, 3-wire + ground *[7]* Delta	100 120 160 180 240 320	SSP09EMA12( ) SSP09EMA16( ) SSP09EMA24( ) SSP09EMA32( )	SSP09EMA12S( ) SSP09EMA16S( ) SSP09EMA24S( )

New!

SurgeLogic™ Type XDSE Surge Protective Devices

XDSE Series

SurgeLogic™ XDSE surge protective devices feature a compact design that allows surge suppression to be externally installed adjacent to electrical distribution equipment. XDSE systems are designed to provide high-quality surge suppression for a wide variety of commercial, industrial or institutional applications. XDSEs incorporate patented overvoltage technology innovations that provide superior overvoltage withstand capability for systems with unstable power, without compromising transient clamping performance.
US and Canadian UL Listed to the UL 1449 standard. Complies with requirements of NEC Article 285 and CSA 22.2 269.1 and 269.2 as appropriate. Complies with UL 96A 12th Edition Master Label requirements for Lightning Protection Systems

- LED light indicates operation status
- Short circuit current rating up to 200 kA
- Suitable for indoor and outdoor applications (NEMA Type 4X rated)
- Convenient lug connection inside enclosure
- -50db EMI/RFI filtering
- Audible alarm
- Dry contacts
- Optional flush mount kit: XDSEMKF

Table 6.2: XDSE Surge Protective Devices

Voltage	Surge Current per Phase	Configuration	Model Number	MCOV	I_n	L-N	L-G	N-G	L-G
120/240V	100	1Ø, 3–wire + ground	SSP01XDSE10A( )	150V	20 kA	700V	700V	600V	1000V
208Y/120V *[8]*	100	3Ø, WYE, 4–wire + ground	SSP02XDSE10A( )	150V	20 kA	700V	700V	600V	1000V
240/120 HLD	100	3Ø, HLD*[9]*, 4–wire + ground	SSP03XDSE10A( )	150/320V	20 kA	700/1200V	700V	600V	1000/2000V
480Y/277V *[10]*	100	3Ø, Wye, 4–wire + ground	SSP04XDSE10A( )	320V	20 kA	1200V	1200V	1200V	2000V
480V Delta *[11]*	100	3Ø, Delta, 3–wire + ground	SSP05XDSE10A( )	552V	20 kA	N/A	1800V	N/A	2000V
240V Delta	100	3Ø, Delta, 3–wire + ground	SSP06XDSE10A( )	300/320V	20 kA	N/A	320 V	300 V	N/A
600Y/347V	100	3Ø, WYE, 4–wire + ground	SSP08XDSE10A( )	420V	20 kA	1500V	1500V	1500V	2500V

[2] Do not use on ungrounded systems. Systems must be solidly grounded.
[3] 208Y/120 series also applies to the following voltage 220Y/127.
[4] Can be used on 4-wire or 3-wire grounded wye systems with or without neutral.
[5] 480Y/277 series applies to the following voltages 380Y/220, 400Y/230, and 415Y/240.
[6] 480 V Delta series also applies to the following voltage 480Y/277V HRG.
[7] 600 V Delta series also applies to the following voltage 600Y/347V HRG.
[8] 208Y/120 series also applies to the following voltage 220Y/127.
[9] HLD= High-leg delta.
[10] 480Y/277 series also applies to the following voltages 380Y/220, 400Y/230, and 415Y/240.
[11] 480V Delta series also applies to the following voltage 480Y/277V HRG.

Table 6.2 XDSE Surge Protective Devices (cont'd.)

Voltage	Surge Current per Phase	Configuration	Model Number	MCOV	I_n	L-N	L-G	N-G	L-G
600V Delta *[12]*	100	1Ø, 3–wire + ground	SSP09XDSE10A( )	690V	20 kA	N/A	2500V	2500V	N/A
120/240 V	150	1Ø, 3–wire + ground	SSP01XDSE15A( )	150V	20 kA	700V	700V	600V	1000V
208Y/120V *[13]*	150	3Ø, WYE, 4–wire + ground	SSP02XDSE15A( )	150V	20 kA	700V	700V	600V	1000V
120/240V HLD	150	3Ø, HLD*[14]*, 4–wire + ground	SSP03XDSE15A( )	150/320V	20 kA	700/1200V	700/1200V	600V	1000/2000V
480Y/277V *[15]*	150	3Ø, WYE, 4–wire + ground	SSP04XDSE15A( )	320V	20 kA	1200V	1200V	1200V	2000V
480V Delta *[16]*	150	3Ø, Delta, 3–wire + ground	SSP05XDSE15A( )	552V	20 kA	N/A	1800V	N/A	2000V
240V Delta	150	3Ø, Delta, 3–wire + ground	SSP06XDSE15A( )	300/320V	20 kA	N/A	320V	300V	N/A
600Y/347V	150	3Ø, WYE, 4–wire + ground	SSP08XDSE15A( )	420V	20 kA	1500V	1500V	1500V	2500V
120/240V	200	1Ø, 3–wire + ground	SSP01XDSE20A( )	150V	20 kA	700V	700V	600V	1000V
208Y/120V *[13]*	200	3Ø, WYE, 4–wire + ground	SSP02XDSE20A( )	150V	20 kA	700V	700V	600V	1000V
240/120 HLD	200	3Ø, HLD*[14]*, 4–wire + ground	SSP03XDSE20A( )	150/320V	20 kA	700/1200V	700V	600V	1000/2000V
480Y/277V *[15]*	200	3Ø, Wye, 4–wire + ground	SSP04XDSE20A( )	320 V	20 kA	1200V	1200 V	1200V	2000 V
480V Delta *[16]*	200	3Ø, Delta, 3–wire + ground	SSP05XDSE20A( )	552V	20 kA	N/A	1800V	N/A	2000V
240V Delta	200	3Ø, Delta, 3–wire + ground	SSP06XDSE20A( )	300/320V	20 kA	N/A	320V	300V	N/A
600Y/347V	200	3Ø, WYE, 4–wire + ground	SSP08XDSE20A( )	420V	20 kA	1500V	1500V	1500V	2500V

( ) For a Type 1 SPD, add a "1" suffix to the catalog number.

SDSA1175, SDSA 3–Phase, and Model 420 Surge Protective Devices

SDSA1175


SDSA 3-Phase

SurgeLogic™ SDSA1175 surge protective devices are designed and listed for indoor or outdoor installation and surge suppression for single-phase three-wire 120/240 Vac or two-wire 120 Vac 60 Hz electrical services. This product is ideal for panel builders as well as manufacturers and integrators of instrumentation cabinets for industrial and commercial applications for single-phase power systems. Two SDSA1175 surge protection devices can be installed to provide suppression for 208Y/120 Vac three-phase four-wire services.
SurgeLogic™ SDSA 3–Phase surge protective devices are designed and listed for indoor or outdoor installation and surge suppression for three-phase electrical services up to 600 Vac. The SDSA 3–Phase series is used extensively in service entrance panels to provide an efficient and economical means of surge suppression and also ideal for point of use applications for that added level of protection.
US and Canadian UL® Listed as Type 1 SPD to the UL 1449 standard. Complies with requirements of NEC® Article 285, CSA 233.1–87, and CSA C22.2 No. 8–M1986 as appropriate.

- LED indicates operational status
- Short circuit current rating 25 kA (SDSA1175), 200 kA (SDSA 3–Phase)
- Suitable for indoor and outdoor applications (NEMA Type 4X rated)
- Convenient back-nipple mounting
- Optional mounting bracket QOSAMK (for SDSA1175 / SDSA1175T)

Table 6.3: SDSA1175 and SDSA 3–Phase Surge Protective Devices

System Voltage	Peak Surge Current Rating per Phase (kA)	Cat. No.
SDSA1175		
120/240 V, 1–phase, 3–wire	36	SDSA1175
120 V, 1–phase, 2–wire	36	SDSA1175T
SDSA 3–Phase		
208Y/120 V 3–phase, 4–wire	40	SDSA2040
240 V Delta, 3–phase, 3 wire	40	SDSA2040D
480Y/277 V, 3–phase, 4–wire	40	SDSA4040
480 V Delta, 3–phase, 3–wire	40	SDSA404D
600Y/347 V, 3–phase, 4–wire	40	SDSA3650
600 V Delta, 3–phase, 3–wire	40	SDSA3650D

[12] 600 V Delta series also applies to the following voltages 600Y/347V HRG.
[13] 208Y/120 series also applies to the following voltage 220Y/127.
[14] HLD= High-leg delta.
[15] 480Y/277 series also applies to the following voltages 380Y/220, 400Y/230, and 415Y/240.
[16] 480V Delta series also applies to the following voltage 480Y/277V HRG.