

Surge Protective Devices (SPD)

Table 1.73: Load Center and CSED Surge Protection Devices

| Description                           | Cat. No.   | Description                                                                       | Surge Current per Phase | Schedule |
|---------------------------------------|------------|-----------------------------------------------------------------------------------|-------------------------|----------|
| Surge Protective Devices              | QO2175SB   | QO Surgebreaker                                                                   | 22.5 kA                 | DE1B     |
|                                       | HOM2175SB  | HOM Surgebreaker                                                                  | 22.5 kA                 | DE1B     |
|                                       | HEPD25     | 1Ø3W—120/240 V Compact SPD                                                        | 25 kA                   | DE1B     |
|                                       | SDSA2040   | 3Ø4W—208Y/120 V Compact SPD                                                       | 40 kA                   | DE1B     |
|                                       | SDSA2040D  | 3Ø3W—240 V Compact SPD                                                            | 40 kA                   | DE1B     |
|                                       | QO250PSPD  | QO Plug-on Neutral SPD                                                            | 50 kA                   | DE1B     |
|                                       | HOM250PSPD | HOM Plug-on Neutral SPD                                                           | 50 kA                   | DE1B     |
|                                       | HEPD50     | SurgeArrest Whole Home Electronic Protection                                      | 50 kA                   | DE1B     |
|                                       | HEPD80     | SurgeArrest Whole Home Electronic Protection                                      | 80 kA                   | DE1B     |
|                                       | SDSB80111  | Surgebreaker Plus (all-in-one protection for appliances, ethernet, and telephone) | 80 kA                   | DE1B     |
| Surge Protective Device Mounting Kits | HEPD25MKF  | HEPD25 Flush Mount Kit                                                            | —                       | DE1B     |
|                                       | HEPD58MKF  | HEPD50 and HEPD80 Flush Mount Kit                                                 | —                       | DE1B     |



HEPD25



HEPD50



HEPD80



QO250PSPD



HOM250PSPD



QO2175SB



HOM2175SB

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

| Voltage         | Surge Current per Phase | Configuration                 | Model Number    | MCOV     | I <sub>n</sub> | 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

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)



SDSA1175



SDSA 3-Phase

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<br>3-phase, 4-wire   | 40                                       | SDSA2040  |
| 240 V Delta,<br>3-phase, 3 wire | 40                                       | SDSA2040D |
| 480Y/277 V,<br>3-phase, 4-wire  | 40                                       | SDSA4040  |
| 480 V Delta,<br>3-phase, 3-wire | 40                                       | SDSA4040D |
| 600Y/347 V,<br>3-phase, 4-wire  | 40                                       | SDSA3650  |
| 600 V Delta,<br>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.