

# VZCA.E320116 - Surge-protective Devices

## Surge-protective Devices

**LITTELFUSE INC**

8755 W Higgins Rd, Suite 500  
Chicago, IL 60631 United States

E320116

| Cat. No.                     | SPD Type | Volts (V) | AC/DC/ DC PV | PH | AMPS (A) | AMB Min (°C) | AMB Max (°C) | AMB MODE                 | VPR (Vpk)                    | MCOV (V)                 | In (kA) | SCCR (kA) |
|------------------------------|----------|-----------|--------------|----|----------|--------------|--------------|--------------------------|------------------------------|--------------------------|---------|-----------|
| <b>Permanently Connected</b> |          |           |              |    |          |              |              |                          |                              |                          |         |           |
| <b>SPDN-A120-1P [a]</b>      | 2        | 120       | AC           | 1  | n/a      | -40          | 85           | L-N<br>L-G<br>N-G        | 700<br>700<br>700            | 180<br>180<br>180        | 20      | 200       |
| <b>SPDN-A120-2S [a]</b>      | 2        | 240/120   | AC           | 1S | n/a      | -40          | 85           | L-L<br>L-N<br>L-G<br>N-G | 1200<br>700<br>700<br>700    | 360<br>180<br>180<br>180 | 20      | 200       |
| <b>SPDN-A120-3Y [a]</b>      | 2        | 208/120   | AC           | 3Y | n/a      | -40          | 85           | L-L<br>L-N<br>L-G<br>N-G | 1200<br>700<br>700<br>600    | 300<br>150<br>150<br>150 | 20      | 200       |
| <b>SPDN-A240-1P [a]</b>      | 2        | 240       | AC           | 1  | n/a      | -40          | 85           | L-N<br>L-G<br>N-G        | 1200<br>1200<br>1200         | 350<br>350<br>350        | 20      | 200       |
| <b>SPDN-A240-3D [a]</b>      | 2        | 240       | AC           | 3D | n/a      | -40          | 85           | L-L<br>L-G               | 1200<br>1000                 | 275<br>275               | 20      | 200       |
| <b>SPDN-A277-3Y [a]</b>      | 2        | 480/277   | AC           | 3Y | n/a      | -40          | 85           | L-L<br>L-N<br>L-G<br>N-G | 2500<br>1200<br>1200<br>1200 | 700<br>350<br>350<br>350 | 20      | 200       |
| <b>SPDN-A480-3D [a]</b>      | 2        | 480       | AC           | 3D | n/a      | -40          | 85           | L-L<br>L-G               | 1800<br>1800                 | 550<br>550               | 20      | 200       |
| <b>SPDN-B120-1P [a]</b>      | 1        | 120       | AC           | 1  | n/a      | -35          | 85           | L-N<br>L-G<br>N-G        | 700<br>700<br>600            | 180<br>180<br>180        | 20      | 200       |
| <b>SPDN-B120-2S [a]</b>      | 1        | 240/120   | AC           | 1S | n/a      | -35          | 85           | L-L<br>L-N<br>L-G<br>N-G | 1200<br>700<br>700<br>600    | 360<br>180<br>180<br>180 | 20      | 200       |

|                         |   |         |    |    |     |     |    |                          |                              |                          |    |     |
|-------------------------|---|---------|----|----|-----|-----|----|--------------------------|------------------------------|--------------------------|----|-----|
| <b>SPDN-B120-3Y [a]</b> | 1 | 208/120 | AC | 3Y | n/a | -35 | 85 | L-L<br>L-N<br>L-G<br>N-G | 1000<br>600<br>700<br>500    | 300<br>150<br>150<br>150 | 20 | 200 |
| <b>SPDN-B240-1P [a]</b> | 1 | 240     | AC | 1  | n/a | -35 | 85 | L-N<br>L-G<br>N-G        | 1200<br>1000<br>1000         | 350<br>350<br>350        | 20 | 200 |
| <b>SPDN-B240-3D [a]</b> | 1 | 240     | AC | 3D | n/a | -35 | 85 | L-L<br>L-G               | 1200<br>1000                 | 275<br>275               | 20 | 200 |
| <b>SPDN-B277-3Y [a]</b> | 1 | 480/277 | AC | 3Y | n/a | -35 | 85 | L-L<br>L-N<br>L-G<br>N-G | 2000<br>1200<br>1000<br>1000 | 700<br>350<br>350<br>350 | 20 | 200 |
| <b>SPDN-B480-3D [a]</b> | 1 | 480     | AC | 3D | n/a | -35 | 85 | L-L<br>L-G               | 1800<br>1800                 | 550<br>550               | 20 | 200 |
| <b>SPDN-C120-1P [a]</b> | 1 | 120     | AC | 1  | n/a | -35 | 85 | L-N<br>L-G<br>N-G        | 700<br>1200<br>600           | 180<br>180<br>180        | 20 | 200 |
| <b>SPDN-C120-2S [a]</b> | 1 | 240/120 | AC | 1S | n/a | -35 | 85 | L-L<br>L-N<br>L-G<br>N-G | 1200<br>700<br>1200<br>600   | 360<br>180<br>180<br>180 | 20 | 200 |
| <b>SPDN-C120-3Y [a]</b> | 1 | 208/120 | AC | 3Y | n/a | -35 | 85 | L-L<br>L-N<br>L-G<br>N-G | 1000<br>600<br>1000<br>600   | 300<br>150<br>150<br>150 | 20 | 200 |
| <b>SPDN-C240-1P [a]</b> | 1 | 240     | AC | 1  | n/a | -35 | 85 | L-N<br>L-G<br>N-G        | 1200<br>2500<br>1000         | 350<br>350<br>350        | 20 | 200 |
| <b>SPDN-C240-3D [a]</b> | 1 | 240     | AC | 3D | n/a | -35 | 85 | L-L<br>L-G               | 1200<br>1200                 | 275<br>275               | 20 | 200 |
| <b>SPDN-C277-3Y [a]</b> | 1 | 480/277 | AC | 3Y | n/a | -35 | 85 | L-L<br>L-N<br>L-G<br>N-G | 2000<br>1200<br>2500<br>1000 | 700<br>350<br>350<br>350 | 20 | 200 |
| <b>SPDN-C480-3D [a]</b> | 1 | 480     | AC | 3D | n/a | -35 | 85 | L-L<br>L-G               | 1800<br>1800                 | 550<br>550               | 20 | 200 |
| <b>SPDN-D120-1P [a]</b> | 1 | 120     | AC | 1  | n/a | -35 | 85 | L-N<br>L-G<br>N-G        | 700<br>1200<br>600           | 180<br>180<br>180        | 20 | 200 |
| <b>SPDN-D120-2S [a]</b> | 1 | 240/120 | AC | 1S | n/a | -35 | 85 | L-L<br>L-N<br>L-G<br>N-G | 1200<br>700<br>1200<br>600   | 360<br>180<br>180<br>180 | 20 | 200 |

|                         |   |         |    |    |     |     |    |                          |                              |                          |    |     |
|-------------------------|---|---------|----|----|-----|-----|----|--------------------------|------------------------------|--------------------------|----|-----|
| <b>SPDN-D120-3Y [a]</b> | 1 | 208/120 | AC | 3Y | n/a | -35 | 85 | L-L<br>L-N<br>L-G<br>N-G | 1000<br>600<br>1000<br>600   | 300<br>150<br>150<br>150 | 20 | 200 |
| <b>SPDN-D240-1P [a]</b> | 1 | 240     | AC | 1  | n/a | -35 | 85 | L-N<br>L-G<br>N-G        | 1200<br>2000<br>1200         | 350<br>350<br>350        | 20 | 200 |
| <b>SPDN-D240-2S [a]</b> | 1 | 480/240 | AC | 1S | n/a | -35 | 85 | L-L<br>L-N<br>L-G<br>N-G | 2000<br>1200<br>2000<br>1200 | 700<br>350<br>350<br>350 | 20 | 200 |
| <b>SPDN-D277-3Y [a]</b> | 1 | 480/277 | AC | 3Y | n/a | -35 | 85 | L-L<br>L-N<br>L-G<br>N-G | 2000<br>1200<br>2000<br>1200 | 700<br>350<br>350<br>350 | 20 | 200 |

These products are intended for installation on the line side (Type 1 SPD) or load side (Type 1, 2 or 3 SPDs) of the main service disconnect in circuits not exceeding 1000 V rms, and have been tested to verify that the transient-voltage surges are limited to the maximum amplitudes specified in the Voltage Protection Rating (VPR).

SPDs investigated for Type 1 applications are automatically suitable for Type 2 applications and may be marked for SPD Type 1 and/or Type 2 applications. SPDs only marked "SPD Type 2" are not suitable for Type 1 applications.

The effect of the surge-protective device on connected loads, the effect of the protector on harmonic distortion of the supply voltage, and the adequacy of the Voltage Protection Rating to protect connected equipment from damage from transient-voltage surges has not been determined.

SPDs investigated for Type 1 applications are automatically suitable for Type 2 applications and may be marked for SPD Type 1 and/or Type 2 applications. SPDs only marked "SPD Type 2" are not suitable for Type 1 applications.

Where a minimum ambient temperature is not specified, assume 0°C unless the product is marked otherwise or with an Outdoor use Environmental Rating. See Electrical Equipment for Use in Ordinary Locations (AALZ) for details regarding Environmental Ratings.

% - Complementary Listed as EMI filters under E316468.

Note - All models may be followed by additional suffixes.

[a] - Complementary Listed as EMI Filters under FOKY, FOKY7.

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