



Expertise Applied | Answers Delivered



SURGE PROTECTION DEVICES CATALOG

SPD2 XP+0 SERIES

SPD2 XP+1 SERIES

SPD2 PV SERIES

SURGE PROTECTION DEVICES TYPE 2

SPD2 SERIES

Littelfuse Type 2 Surge Protection Devices (SPDs) for branch circuits safeguard components from transient overvoltage or surges by limiting the fault current to a load or the unit being protected. Surges may be caused by an indirect lightning strike but, the majority—sixty to eighty percent*—are caused by equipment being turned on or off within a facility. These surges damage components costing money to repair or replace as well as create unplanned downtime resulting in unfulfilled orders, missed deadlines, unreliable systems and/or dangerous situations.

The DIN-rail mounted SPDs are available in a wide range of operating voltages and include solar applications. They are ideal for:



Power Distribution

- Load Centers
- Transformers
- Generators



Industrial Controls

- Programmable Logic Controllers
- Motor Controls
- Variable-Frequency Drives
- Proximity Sensors
- Barcoding Equipment
- Machine Vision Systems



Electrical Loads

- Motors
- Fans
- Heaters
- Blowers
- Ballasts

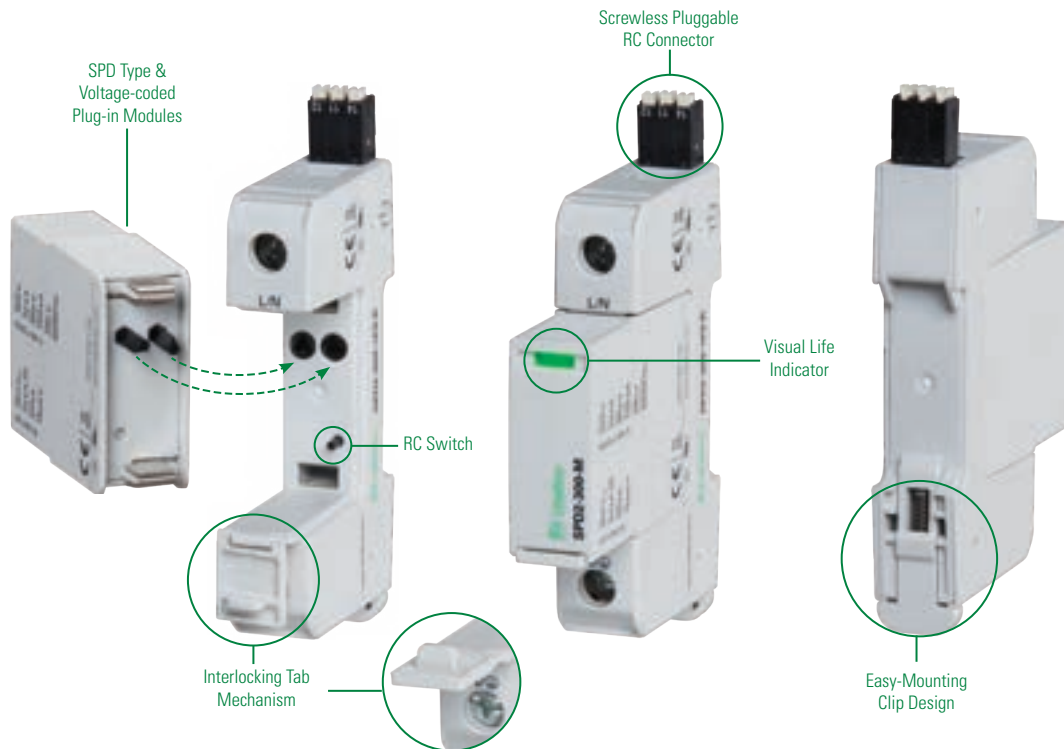


Computers and Communications

- LANs
- WANs
- Intercoms
- Fire, Security, UPS or Building Management Systems



HVAC or Medical Equipment



FEATURES	BENEFITS
Capability to clamp and withstand high-energy transients	Ensures low-residual voltage during high-energy surge events and higher nominal discharge current to prevent disruption, downtime, and degradation or damage to equipment
UL and VDE-IEC compliant in single part number	One component can be utilized globally, reducing inventory needs and simplifying allocation of parts
Interlocking tab mechanism	Secures module to withstand vibration
SPD type and voltage-coded plug-in module	Prevents specific SPD/voltage module from being plugged into wrong base. Eliminates risk of improper protection
No additional overcurrent protection devices required in UL applications	Reduces the number of components and costs required for protection
Compact footprint	Increases panel design flexibility
Visual life indicator	Quick visual determines module replacement status to avoid loss of protection
Pluggable modules	Fast and simple to replace, minimizing maintenance and downtime. No tools required
Thermal protection	Eliminates catastrophic failure
IP20 protection rating	Finger-safe design increases worker protection

*National Electrical Safety Month 2015, Electrical Safety Foundation International [website] Surge and Protect. Available: <https://www.esfi.org/resource/surge-and-protect-413>

Surge Protection Devices

TABLE OF CONTENTS



SPD2 P SERIES

SPD2 1P+0 2

SPD2 2P+0 4

SPD2 3P+0 6

SPD2 4P+0 8

SPD2 P+1 SERIES

SPD2 1P+1 10

SPD2 3P+1 12

SPD2 PV SERIES

SPD2 PV 14

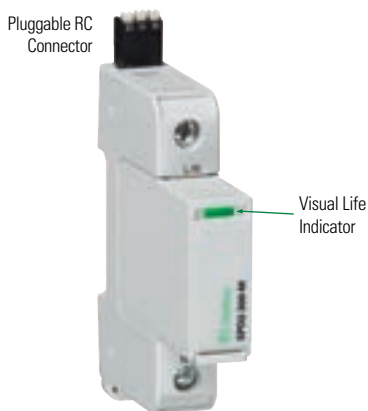
CROSS-REFERENCE GUIDE

SPD2 Series Cross Reference 16

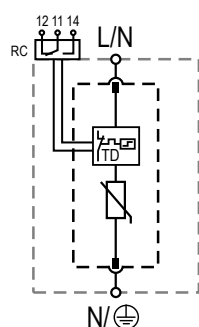
Surge Protection Devices

SPD2 PPO SERIES

Class II/Type 2/Type 1 CA Pluggable Single-Pole



Internal Configuration



Legend

L	Line	RC	Remote Contacts
N	Neutral	TD	Thermal Disconnection
⊕	Protective Earth		

Description

Surge protection devices (SPDs) provide equipment protection from transient overvoltage events lasting micro-seconds. By limiting the overvoltage to the equipment during these events, costly damage and downtime can be mitigated.

The surge protection devices for the 1+0 configuration are available for 60 V to 600 V nominal voltage sub-distribution board applications.

Features & Benefits

Features	Benefits
Limit to clamp in its stand high energy transients	Ensures low-residual voltage during high-energy surge events and higher nominal discharge current to prevent disruption, downtime, and degradation or damage to equipment
One component can be utilized globally, reducing inventory needs and simplifying allocation of parts	One component can be utilized globally, reducing inventory needs and simplifying allocation of parts
Interlocking mechanism	Secures module to withstand vibration
One position overcurrent protection devices required in applications	Reduces the number of components and costs required for protection
One compact footprint	Increases panel design flexibility
Visual life indicator	Quick visual determines module replacement status to avoid loss of protection
Pluggable modules	Fast and simple to replace, minimizing maintenance and downtime. No tools required
Overcurrent protection	Eliminates catastrophic failure
IPX0 protection rating	Finger-safe design increases worker protection

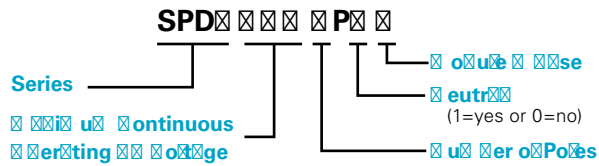
Module & Base Rerating Information

Ordering Information	IEC Ratings								UL Ratings				Shipping Weight
	Nominal Voltage (V)	Rated Voltage (V)	Rated Current (kA)	Rated Discharge Current (kA)	Rated Power (W)	Surge Current (kA)	Surge Voltage (V)	Surge Power (W)	Rated Voltage (V)	Rated Current (kA)	Rated Discharge Current (kA)	Rated Power (W)	
SPD2-075-1P0-R	60 V	75 V	20 kA	50 kA	800 V	25 kA / 50 kA	114 V	114 V / Withstand	75 V	330 V	20 kA	100 kA	124 g (0.274 lb)
SPD2-150-1P0-R	120 V	150 V	20 kA	50 kA	1250 V	25 kA / 50 kA	229 V	229 V / Withstand	150 V	600 V	20 kA	200 kA	128 g (0.283 lb)
SPD2-300-1P0-R	240 V	300 V	20 kA	50 kA	1500 V	25 kA / 50 kA	337 V	442 V / Safe Fail	300 V	900 V	20 kA	150 kA	135 g (0.298 lb)
SPD2-350-1P0-R	277 V	350 V	20 kA	50 kA	1750 V	25 kA / 50 kA	403 V	529 V / Safe Fail	350 V	1000 V	20 kA	200 kA	140 g (0.309 lb)
SPD2-480-1P0-R	400 V	480 V	20 kA	50 kA	2300 V	25 kA / 50 kA	581 V	762 V / Safe Fail	480 V	1500 V	20 kA	200 kA	145 g (0.320 lb)
SPD2-550-1P0-R*	480 V	550 V	20 kA	50 kA	2500 V	25 kA / 50 kA	697 V	915 V / Safe Fail	550 V	2000 V	20 kA	200 kA	148 g (0.326 lb)
SPD2-750-1P0-R	600 V	750 V	20 kA	35 kA	3400 V	25 kA / 50 kA	871 V	1143 V / Safe Fail	750 V	2500 V	20 kA	200 kA	161 g (0.355 lb)

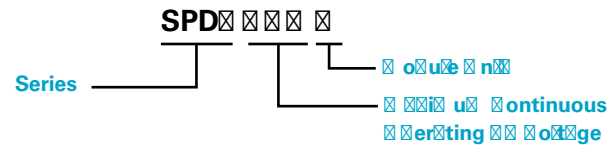
Surge Protection Devices

SPD2-P SERIES

SPD2-P Series Part Numbering System



SPD2-N Series Part Numbering System



Electrical and Mechanical Rating Information

Ordering Information	IEC Electrical								UL Electrical				Shipping Weight
	Nominal Voltage (V)	Rated Voltage (V)	Rated Current (kA)	Rated Current (kA)	Rated Voltage (V)	Rated Current (kA)	Rated Voltage (V)	Rated Voltage (V)	Rated Voltage (V)	Rated Voltage (V)	Rated Current (kA)	Rated Current (kA)	
SPD2-075-M	60 V	75 V	20 kA	50 kA	800 V	25 kA / 50 kA	114 V	114 V / Withstand	75 V	330 V	20 kA	100 kA	50 g (0.111 lb)
SPD2-150-M	120 V	150 V	20 kA	50 kA	1250 V	25 kA / 50 kA	229 V	229 V / Withstand	150 V	600 V	20 kA	200 kA	54 g (0.120 lb)
SPD2-300-M	240 V	300 V	20 kA	50 kA	1500 V	25 kA / 50 kA	337 V	442 V / Safe Fail	300 V	900 V	20 kA	150 kA	61 g (0.135 lb)
SPD2-350-M	277 V	350 V	20 kA	50 kA	1750 V	25 kA / 50 kA	403 V	529 V / Safe Fail	350 V	1000 V	20 kA	200 kA	66 g (0.146 lb)
SPD2-480-M	400 V	480 V	20 kA	50 kA	2300 V	25 kA / 50 kA	581 V	762 V / Safe Fail	480 V	1500 V	20 kA	200 kA	71 g (0.157 lb)
SPD2-550-M*	480 V	550 V	20 kA	50 kA	2500 V	25 kA / 50 kA	697 V	915 V / Safe Fail	550 V	2000 V	20 kA	200 kA	74 g (0.163 lb)
SPD2-750-M	600 V	750 V	20 kA	35 kA	3400 V	25 kA / 50 kA	871 V	1143 V / Safe Fail	750 V	2500 V	20 kA	200 kA	87 g (0.192 lb)

Specifications

Network Systems	TN-S, TN-C, TT (only L-N)
Mode of Protection	L-PE, N-PE (only TN-S), L-PEN, L-N
Nominal Discharge Current (8/20 μs) (I_n)	20 kA
Maximum Discharge Current (8/20 μs) (I_{max})	Up to 50 kA
Protective Elements	High Energy MOV
Response Time (L-N / N-PE t_A)	< 25 ns
Back-Up Fuse (max)	315 A/250 A Gg
Number of Ports	1
Mechanical & Environmental	
Operating Temperature Range (T_a)	-40 °C to +80 °C (-40 °F to +185 °F)
Permissible Operating Humidity (RH)	5% to 95%
Altitude (max)	4,000 m (13,123 ft)
Terminal Screw Torque (M_{max})	4.5 Nm (39.9 lbf-in)
Conductor Cross Section (max)	35 mm ² (2 AWG) (Solid, Stranded)/ 25 mm ² (4 AWG) (Flexible)
Mounting	35 mm DIN Rail, EN60715
Degree of Protection	IP20 (built-in)
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0

Thermal Protection	Yes
Operating State/Fault Indication	Green Flag/No Green Flag
Remote Contact Switching Capacity	AC: 250 V/1 A, 125 V/1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A
Remote Contact Conductor Cross Section (max)	1.5 mm ² (16 AWG) (Solid)
Standards Passed*	IEC 61643-11:2011 EN 61643-11:2012 UL 1449, 4th edition

Product Dimensions

1TE Module and Base	H 90.0 mm (3.54"); W 18.0 mm (0.71"); D 70.0 mm (2.76")
1TE Replacement Module	H 45.0 mm (1.77"); W 18.0 mm (0.71"); D 57.2mm (2.25")
Package Dimensions	
1TE Module and Base	H 102.0 mm (4.01"); W 28.0 mm (1.10"); D 110.0 mm (4.33")
1TE Replacement Module	H 102.0 mm (4.01"); W 28.0 mm (1.10"); D 110.0 mm (4.33")

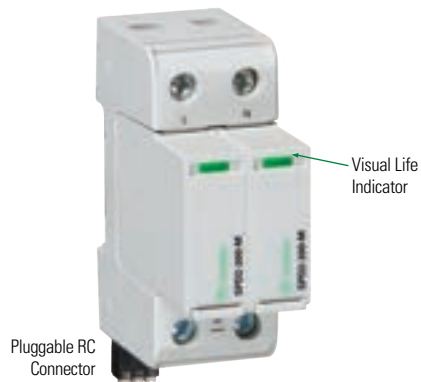
*SPD2-550-1P0-R and SPD2-550-M are UL Listed only

Warranty – www.littelfuse.com/warranty

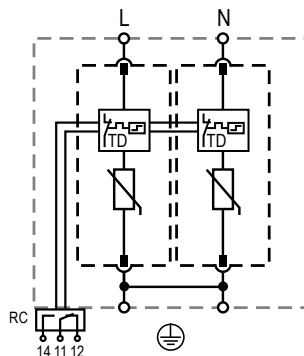
Surge Protection Devices

SPD2 2P0 SERIES

Class II/Type 2/Type 1 CA Pluggable Multi-Pole



Internal Configuration



Legend

L	Line	RC	Remote Contacts
N	Neutral	TD	Thermal Disconnection
⊕	Protective Earth		

Description

Surge protection devices (SPDs) provide equipment protection from transient overvoltage events lasting micro-seconds. By limiting the overvoltage to the equipment during these events, costly damage and downtime can be mitigated.

The surge protection devices for the 2+0 configuration are available for 120 V to 600 V nominal voltage sub-distribution board applications.

Features & Benefits

FEATURES	BENEFITS
High to class II lightning energy transients	Ensures low-residual voltage during high-energy surge events and higher nominal discharge current to prevent disruption, downtime, and degradation or damage to equipment
One component in single circuit per pole	One component can be utilized globally, reducing inventory needs and simplifying allocation of parts
Interlocking mechanism	Secures module to withstand vibration
Overcurrent protection devices required in applications	Reduces the number of components and costs required for protection
Compact footprint	Increases panel design flexibility
Visual life indicator	Quick visual determines module replacement status to avoid loss of protection
Pluggable modules	Fast and simple to replace, minimizing maintenance and downtime. No tools required
Zero failure protection	Eliminates catastrophic failure
IP20 protection rating	Finger-safe design increases worker protection

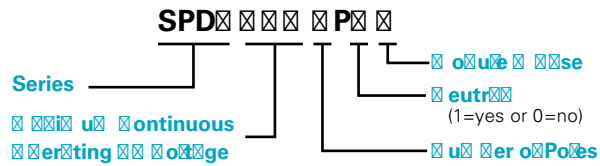
Module Case Rating Information

Ordering Information	IEC Ratings								UL Ratings				Shipping Weight (kg/lb)
	Nominal Voltage (V)	Rated Voltage (V)	Rated Current (kA)	Discharge Current (kA)	Surge Voltage (V)	Short-Circuit Current (kA)	Max. Voltage (V)	Withstand Voltage (V)	Rated Voltage (V)	Rated Current (kA)	Discharge Current (kA)	Short-Circuit Current (kA)	
SPD2-150-2P0-R	120 V	150 V	20 kA	50 kA	1250 V	25 kA / 50 kA	229 V	229 V / Withstand	150 V	600 V	20 kA	200 kA	252 g (0.556 lb)
SPD2-300-2P0-R	240 V	300 V	20 kA	50 kA	1500 V	25 kA / 50 kA	337 V	442 V / Safe Fail	300 V	900 V	20 kA	150 kA	266 g (0.587 lb)
SPD2-350-2P0-R	277 V	350 V	20 kA	50 kA	1750 V	25 kA / 50 kA	403 V	529 V / Safe Fail	350 V	1000 V	20 kA	200 kA	276 g (0.609 lb)
SPD2-480-2P0-R	400 V	480 V	20 kA	50 kA	2300 V	25 kA / 50 kA	581 V	762 V / Safe Fail	480 V	1500 V	20 kA	200 kA	286 g (0.631 lb)
SPD2-550-2P0-R*	480 V	550 V	20 kA	50 kA	2500 V	25 kA / 50 kA	697 V	915 V / Safe Fail	550 V	2000 V	20 kA	200 kA	290 g (0.639 lb)
SPD2-750-2P0-R	600 V	750 V	20 kA	35 kA	3400 V	25 kA / 50 kA	871 V	1143 V / Safe Fail	750 V	2500 V	20 kA	200 kA	318 g (0.702 lb)

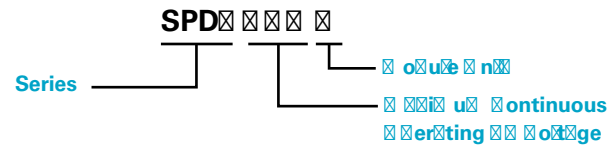
Surge Protection Devices

SPD2 2P00 SERIES

Module Base Part Numbering System



Module Base Part Numbering System



Electrical and Mechanical Information

Ordering Information	IEC Electrical								UL Electrical				Shipping Weight
	Nominal Voltage (V)	Rated Voltage (V)	Rated Current (A)	Rated Current (A)	Rated Current (A)	Rated Current (A)	Rated Current (A)	Rated Current (A)	Nominal Voltage (V)	Rated Voltage (V)	Rated Current (A)	Rated Current (A)	
SPD2-150-M	120 V	150 V	20 kA	50 kA	1250 V	25 kA / 50 kA	229 V	229 V / Withstand	150 V	600 V	20 kA	200 kA	54 g (0.120 lb)
SPD2-300-M	240 V	300 V	20 kA	50 kA	1500 V	25 kA / 50 kA	337 V	442 V / Safe Fail	300 V	900 V	20 kA	150 kA	61 g (0.135 lb)
SPD2-350-M	277 V	350 V	20 kA	50 kA	1750 V	25 kA / 50 kA	403 V	529 V / Safe Fail	350 V	1000 V	20 kA	200 kA	66 g (0.146 lb)
SPD2-480-M	400 V	480 V	20 kA	50 kA	2300 V	25 kA / 50 kA	581 V	762 V / Safe Fail	480 V	1500 V	20 kA	200 kA	71 g (0.157 lb)
SPD2-550-M*	480 V	550 V	20 kA	50 kA	2500 V	25 kA / 50 kA	697 V	915 V / Safe Fail	550 V	2000 V	20 kA	200 kA	74 g (0.163 lb)
SPD2-750-M	600 V	750 V	20 kA	35 kA	3400 V	25 kA / 50 kA	871 V	1143 V / Safe Fail	750 V	2500 V	20 kA	200 kA	87 g (0.192 lb)

Specifications

Network Systems	TN-S
Mode of Protection	L-PE, N-PE
Nominal Discharge Current (8/20 μs) (I_n)	20 kA
Maximum Discharge Current (8/20 μs) (I_{max})	Up to 50 kA
Protective Elements	High Energy MOV
Response Time (t_A)	< 25 ns
Back-Up Fuse (max)	315 A/250 A Gg
Number of Ports	1
Mechanical & Environmental	
Operating Temperature Range (T_o)	-40 °C to +80 °C (-40 °F to +185 °F)
Permissible Operating Humidity (RH)	5% to 95%
Altitude (max)	4,000 m (13,123 ft)
Terminal Screw Torque (M_{max})	4.5 Nm (39.9 lbf-in)
Conductor Cross Section (max)	35 mm ² (2 AWG) (Solid, Stranded)/ 25 mm ² (4 AWG) (Flexible)
Mounting	35 mm DIN Rail, EN60715
Degree of Protection	IP20 (built-in)
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection	Yes

Operating State/Fault Indication	Green Flag/No Green Flag
Remote Contact Switching Capacity	AC: 250 V/1 A, 125 V/1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A
Remote Contact Conductor Cross Section (max)	1.5 mm ² (16 AWG) (Solid)
Standards Passed*	IEC 61643-11:2011 EN 61643-11:2012 UL 1449, 4th edition

Dimensions & Packaging

2TE Module and Base	H 90.0 mm (3.54"); Φ 36.0 mm (1.42"); D 70.0 mm (2.76")
1TE Replacement Module	H 45.0 mm (1.77"); Φ 18.0 mm (0.71"); D 57.2mm (2.25")
Package Dimensions	
2TE Module and Base	H 102.0 mm (4.01"); Φ 46.0 mm (1.81"); D 110.0 mm (4.33")
1TE Replacement Module	H 102.0 mm (4.01"); Φ 28.0 mm (1.10"); D 110.0 mm (4.33")

*SPD2-550-2P0-R and SPD2-550-M are UL Listed only

Warranty – www.littelfuse.com/warranty

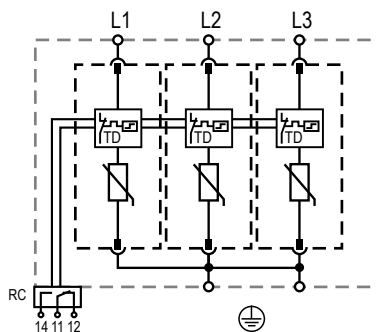
Surge Protection Devices

SPD2 PPO SERIES

Class II/Type 2/Type 1 CA Pluggable Multi-Pole



Internal Configuration



Legend

L	Line	RC	Remote Contacts
N	Neutral	TD	Thermal Disconnection
⊕	Protective Earth		

Description

Surge protection devices (SPDs) provide equipment protection from transient overvoltage events lasting micro-seconds. By limiting the overvoltage to the equipment during these events, costly damage and downtime can be mitigated.

The surge protection devices for the 3+0 configuration are available for 120 V to 600 V nominal voltage sub-distribution board applications.

Features & Benefits

Features	Benefits
High performance to clamp and limit high energy transients	Ensures low-residual voltage during high-energy surge events and higher nominal discharge current to prevent disruption, downtime, and degradation or damage to equipment
One component can be utilized globally, reducing inventory needs and simplifying allocation of parts	One component can be utilized globally, reducing inventory needs and simplifying allocation of parts
Interlocking mechanism	Secures module to withstand vibration
Overcurrent protection devices required in applications	Reduces the number of components and costs required for protection
Compact footprint	Increases panel design flexibility
Visual life indicator	Quick visual determines module replacement status to avoid loss of protection
Pluggable modules	Fast and simple to replace, minimizing maintenance and downtime. No tools required
Finger-safe protection	Eliminates catastrophic failure
Finger-safe protection rating	Finger-safe design increases worker protection

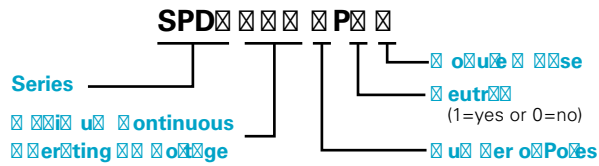
Module Case Rating Information

Operating Voltage (V)	IEC Ratings							UL Ratings					Weight (lb)
	Nominal Voltage (V)	Rated Voltage (V)	Rated Current (kA)	Rated Current (kA)	Rated Voltage (V)	Rated Current (kA)	Rated Voltage (V)	Rated Voltage (V)	Rated Voltage (V)	Rated Current (kA)	Rated Current (kA)	Rated Current (kA)	
SPD2-150-3PO-R	120 V	150 V	20 kA	50 kA	1250 V	25 kA / 50 kA	229 V	229 V / Withstand	150 V	600 V	20 kA	200 kA	355 g (0.783 lb)
SPD2-300-3PO-R	240 V	300 V	20 kA	50 kA	1500 V	25 kA / 50 kA	337 V	442 V / Safe Fail	300 V	900 V	20 kA	150 kA	376 g (0.829 lb)
SPD2-350-3PO-R	277 V	350 V	20 kA	50 kA	1750 V	25 kA / 50 kA	403 V	529 V / Safe Fail	350 V	1000 V	20 kA	200 kA	391 g (0.862 lb)
SPD2-480-3PO-R	400 V	480 V	20 kA	50 kA	2300 V	25 kA / 50 kA	581 V	762 V / Safe Fail	480 V	1500 V	20 kA	200 kA	406 g (0.896 lb)
SPD2-550-3PO-R*	480 V	550 V	20 kA	50 kA	2500 V	25 kA / 50 kA	697 V	915 V / Safe Fail	550 V	2000 V	20 kA	200 kA	414 g (0.913 lb)
SPD2-750-3PO-R	600 V	750 V	20 kA	35 kA	3400 V	25 kA / 50 kA	871 V	1143 V / Safe Fail	750 V	2500 V	20 kA	200 kA	454 g (1.001 lb)

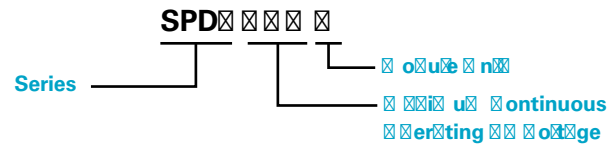
Surge Protection Devices

SPD2 PPO SERIES

SPD2 PPO Series Part Numbering System



SPD2 PPO Series Part Numbering System



Electrical and Mechanical Ratings

Ordering Information	IEC Ratings							UL Ratings					Shipping Weight
	Nominal Voltage (V)	Maximum Voltage (V)	Rated Current (A)	Rated Current (kA)	Rated Voltage (V)	Rated Current (kA)	Rated Voltage (V)	Nominal Voltage (V)	Maximum Voltage (V)	Rated Current (A)	Rated Current (kA)	Rated Voltage (V)	
SPD2-150-M	120 V	150 V	20 kA	50 kA	1250 V	25 kA / 50 kA	229 V	229 V / Withstand	150 V	600 V	20 kA	200 kA	54 g (0.120 lb)
SPD2-300-M	240 V	300 V	20 kA	50 kA	1500 V	25 kA / 50 kA	337 V	442 V / Safe Fail	300 V	900 V	20 kA	150 kA	61 g (0.135 lb)
SPD2-350-M	277 V	350 V	20 kA	50 kA	1750 V	25 kA / 50 kA	403 V	529 V / Safe Fail	350 V	1000 V	20 kA	200 kA	66 g (0.146 lb)
SPD2-480-M	400 V	480 V	20 kA	50 kA	2300 V	25 kA / 50 kA	581 V	762 V / Safe Fail	480 V	1500 V	20 kA	200 kA	71 g (0.157 lb)
SPD2-550-M*	480 V	550 V	20 kA	50 kA	2500 V	25 kA / 50 kA	697 V	915 V / Safe Fail	550 V	2000 V	20 kA	200 kA	74 g (0.163 lb)
SPD2-750-M	600 V	750 V	20 kA	35 kA	3400 V	25 kA / 50 kA	871 V	1143 V / Safe Fail	750 V	2500 V	20 kA	200 kA	87 g (0.192 lb)

Specifications

Network Systems	TT, TN-S
Mode of Protection	L-N, N-PE
Nominal Discharge Current (8/20 μs) (I_n)	20 kA
Maximum Discharge Current (8/20 μs) (I_{max})	Up to 50 kA
Protective Elements	High Energy MOV
Response Time (L-N / N-PE t_A)	< 25 ns
Back-Up Fuse (max)	315 A/250 A Gg
Number of Ports	1
Mechanical & Environmental	
Operating Temperature Range (T_a)	-40 °C to +80 °C (-40 °F to +185 °F)
Permissible Operating Humidity (RH)	5% to 95%
Altitude (max)	4,000 m (13,123 ft)
Terminal Screw Torque (M_{max})	4.5 Nm (39.9 lbf-in)
Conductor Cross Section (max)	35 mm ² (2 AWG) (Solid, Stranded)/ 25 mm ² (4 AWG) (Flexible)
Mounting	35 mm DIN Rail, EN60715
Degree of Protection	IP20 (built-in)
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0

Thermal Protection	Yes
Operating State/Fault Indication	Green Flag/No Green Flag
Remote Contact Switching Capacity	AC: 250 V/1 A, 125 V/1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A
Remote Contact Conductor Cross Section (max)	1.5 mm ² (16 AWG) (Solid)
Standards Passed*	IEC 61643-11:2011 EN 61643-11:2012 UL 1449, 4th edition

Product Dimensions

3TE Module and Base

H 90.0 mm (3.54"); W 54.0 mm (2.13");
D 70.0 mm (2.76")

1TE Replacement Module

H 45.0 mm (1.77"); W 18.0 mm (0.71");
D 57.2mm (2.25")

Package Dimensions

3TE Module and Base

H 102.0 mm (4.01"); W 64.0 mm (2.52");
D 110.0 mm (4.33")

1TE Replacement Module

H 102.0 mm (4.01"); W 28.0 mm (1.10");
D 110.0 mm (4.33")

*SPD2-550-3PO-R and SPD2-550-M are UL Listed only

Warranty – www.littelfuse.com/warranty

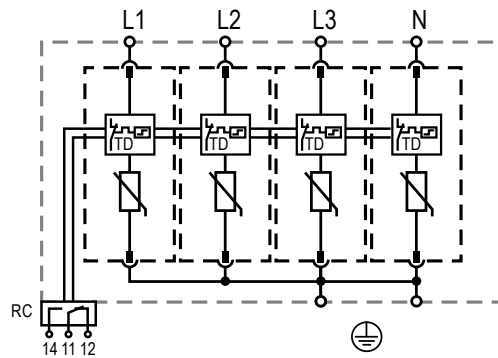
Surge Protection Devices

SPD2 PXX SERIES

Class II/Type 2/Type 1 CA Pluggable Multi-Pole



Internal Configuration



Legend

L	Line	RC	Remote Contacts
N	Neutral	TD	Thermal Disconnection
⊕	Protective Earth		

Description

Surge protection devices (SPDs) provide equipment protection from transient overvoltage events lasting micro-seconds. By limiting the overvoltage to the equipment during these events, costly damage and downtime can be mitigated.

The surge protection devices for the 4+0 configuration are available for 120 V to 480 V nominal voltage sub-distribution board applications.

Features & Benefits

FEATURES	BENEFITS
High energy transient protection	Ensures low-residual voltage during high-energy surge events and higher nominal discharge current to prevent disruption, downtime, and degradation or damage to equipment
One component can be utilized globally, reducing inventory needs and simplifying allocation of parts	
Interlocking mechanism	Secures module to withstand vibration
Overcurrent protection devices required in applications	Reduces the number of components and costs required for protection
Compact footprint	Increases panel design flexibility
Visual life indicator	Quick visual determines module replacement status to avoid loss of protection
Pluggable modules	Fast and simple to replace, minimizing maintenance and downtime. No tools required
Zero protection	Eliminates catastrophic failure
IPX protection rating	Finger-safe design increases worker protection

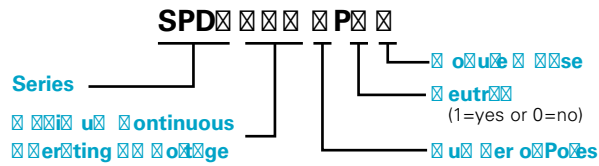
Module Case Rating Information

Operating Voltage (V)	IEC Ratings								UL Ratings				Weight (g)
	Line Voltage (V)	Line Voltage (V)	Line Current (kA)	Line Current (kA)	Line Voltage (V)	Line Current (kA)	Line Current (kA)	Line Voltage (V)	Line Voltage (V)	Line Current (kA)	Line Current (kA)	Line Current (kA)	
SPD2-150-4P0-R	120 V	150 V	20 kA	50 kA	1250 V	25 kA / 50 kA	229 V	229 V / Withstand	150 V	600 V	20 kA	200 kA	477 g (1.052 lb)
SPD2-300-4P0-R	240 V	300 V	20 kA	50 kA	1500 V	25 kA / 50 kA	337 V	442 V / Safe Fail	300 V	900 V	20 kA	150 kA	505 g (1.114 lb)
SPD2-350-4P0-R	277 V	350 V	20 kA	50 kA	1750 V	25 kA / 50 kA	403 V	529 V / Safe Fail	350 V	1000 V	20 kA	200 kA	525 g (1.158 lb)
SPD2-480-4P0-R	400 V	480 V	20 kA	50 kA	2300 V	25 kA / 50 kA	581 V	762 V / Safe Fail	480 V	1500 V	20 kA	200 kA	545 g (1.202 lb)
SPD2-550-4P0-R*	480 V	550 V	20 kA	50 kA	2500 V	25 kA / 50 kA	697 V	915 V / Safe Fail	550 V	2000 V	20 kA	200 kA	557 g (1.228 lb)

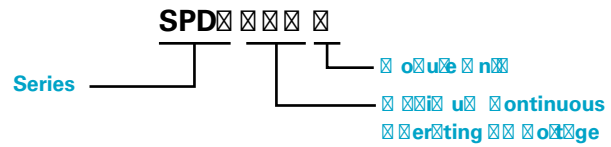
Surge Protection Devices

SPD2 P SERIES

SPD2 P Series Part numbering System



SPD2 P Series Part numbering System



Electrical and Mechanical Rating Information

Ordering Information	IEC Ratings								UL Ratings				Shipping Weight
	Nominal Voltage (V)	Maximum Voltage (V)	Nominal Current (kA)	Maximum Current (kA)	Surge Current (kA)	Surge Current (kA)	Surge Current (kA)	Surge Current (kA)	Nominal Voltage (V)	Maximum Voltage (V)	Nominal Current (kA)	Maximum Current (kA)	
SPD2-150-M	120 V	150 V	20 kA	50 kA	1250 V	25 kA / 50 kA	229 V	229 V / Withstand	150 V	600 V	20 kA	200 kA	54 g (0.120 lb)
SPD2-300-M	240 V	300 V	20 kA	50 kA	1500 V	25 kA / 50 kA	337 V	442 V / Safe Fail	300 V	900 V	20 kA	150 kA	61 g (0.135 lb)
SPD2-350-M	277 V	350 V	20 kA	50 kA	1750 V	25 kA / 50 kA	403 V	529 V / Safe Fail	350 V	1000 V	20 kA	200 kA	66 g (0.146 lb)
SPD2-480-M	400 V	480 V	20 kA	50 kA	2300 V	25 kA / 50 kA	581 V	762 V / Safe Fail	480 V	1500 V	20 kA	200 kA	71 g (0.157 lb)
SPD2-550-M*	480 V	550 V	20 kA	50 kA	2500 V	25 kA / 50 kA	697 V	915 V / Safe Fail	550 V	2000 V	20 kA	200 kA	74 g (0.163 lb)

Specifications

Network Systems	TN-S
Mode of Protection	L-PE, N-PE
Nominal Discharge Current (8/20 μs) (I_n)	20 kA
Maximum Discharge Current (8/20 μs) (I_{max})	Up to 50 kA
Protective Elements	High Energy MOV
Response Time (t_A)	< 25 ns
Back-Up Fuse (max)	315 A/250 A Gg
Number of Ports	1
Mechanical & Environmental	
Operating Temperature Range (T_o)	-40 °C to +80 °C (-40 °F to +185 °F)
Permissible Operating Humidity (RH)	5% to 95%
Altitude (max)	4,000 m (13,123 ft)
Terminal Screw Torque (M_{max})	4.5 Nm (39.9 lbf-in)
Conductor Cross Section (max)	35 mm ² (2 AWG) (Solid, Stranded)/ 25 mm ² (4 AWG) (Flexible)
Mounting	35 mm DIN Rail, EN60715
Degree of Protection	IP20 (built-in)
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0

Thermal Protection	Yes
Operating State/Fault Indication	Green Flag/No Green Flag
Remote Contact Switching Capacity	AC: 250 V/1 A, 125 V/1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A
Remote Contact Conductor Cross Section (max)	1.5 mm ² (16 AWG) (Solid)
Standards Passed*	IEC 61643-11:2011 EN 61643-11:2012 UL 1449, 4th edition

Product Dimensions

4TE Module and Base	H 90.0 mm (3.54"); Φ 72.0 mm (2.84"); D 70.0 mm (2.76")
1TE Replacement Module	H 45.0 mm (1.77"); Φ 18.0 mm (0.71"); D 57.2mm (2.25")
Package Dimensions	
4TE Module and Base	H 102.0 mm (4.01"); Φ 82.0 mm (3.23"); D 110.0 mm (4.33")
1TE Replacement Module	H 102.0 mm (4.01"); Φ 28.0 mm (1.10"); D 110.0 mm (4.33")

*SPD2-550-4P0-R and SPD2-550-M are UL Listed only

Warranty – www.littelfuse.com/warranty

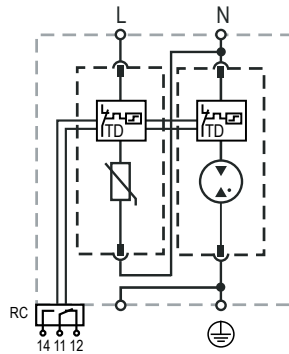
Surge Protection Devices

SPD2 PXX SERIES

Class II/Type 2/Type 1 CA Pluggable Multi-Pole



Internal Configuration



Legend

L	Line	RC	Remote Contacts
N	Neutral	TD	Thermal Disconnection
⊕	Protective Earth		

Description

Surge protection devices (SPDs) provide equipment protection from overvoltage events lasting micro-seconds. By limiting the overvoltage to the equipment during these events, costly equipment damage and downtime can be mitigated.

The surge protection devices for the 1+1 configuration are available for 60 V to 277 V nominal voltage sub-distribution board applications.

Features & Benefits

FEATURES	BENEFITS
Low residual voltage to clamp high energy transients	Ensures low-residual voltage during high-energy surge events and higher nominal discharge current to prevent disruption, downtime, and degradation or damage to equipment
One component in single line	One component can be utilized globally, reducing inventory needs and simplifying allocation of parts
Interlocking terminals	Secures module to withstand vibration
Overcurrent protection devices required in applications	Reduces the number of components and costs required for protection
Compact footprint	Increases panel design flexibility
Visual life indicator	Quick visual determines module replacement status to avoid loss of protection
Pluggable modules	Fast and simple to replace, minimizing maintenance and downtime. No tools required
Overcurrent protection	Eliminates catastrophic failure
Finger-safe protection rating	Finger-safe design increases worker protection

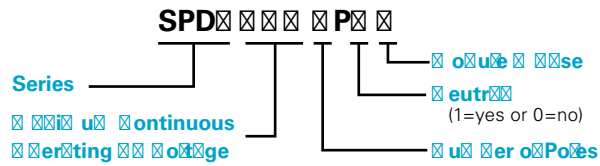
Module Case Rating Information

Ordering Information	IEC Ratings										UL Ratings				Shipping Weight
	Line to Ground (L-G)	Line to Neutral (L-N)	Line to PE (L-PE)	Neutral to PE (N-PE)	Line to PE (L-PE)	Neutral to PE (N-PE)	Line to PE (L-PE)	Neutral to PE (N-PE)	Line to PE (L-PE)	Neutral to PE (N-PE)	Line to Ground (L-G)	Line to Neutral (L-N)	Line to PE (L-PE)	Neutral to PE (N-PE)	
SPD2-075-1P1-R	60 V	75 V / 305 V	20 kA / 40 kA	50 kA / 65 kA	800 V / 1500 V	100 A _{RMS}	25 kA / 50 kA	114 V	114 V / Withstand	1200 V	75 V / 305 V	330 V / 1000 V	20 kA / 20 kA	100 kA	124 g (0.274 lb)
SPD2-150-1P1-R	120 V	150 V / 305 V	20 kA / 40 kA	50 kA / 65 kA	1250 V / 1500 V	100 A _{RMS}	25 kA / 50 kA	229 V	229 V / Withstand	1200 V	150 V / 305 V	600 V / 1000 V	20 kA / 20 kA	200 kA	128 g (0.283 lb)
SPD2-300-1P1-R	240 V	300 V / 305 V	20 kA / 40 kA	50 kA / 65 kA	1500 V / 1500 V	100 A _{RMS}	25 kA / 50 kA	337 V	442 V / Safe Fail	1200 V	300 V / 305 V	900 V / 1000 V	20 kA / 20 kA	150 kA	135 g (0.298 lb)
SPD2-350-1P1-R	277 V	350 V / 305 V	20 kA / 40 kA	50 kA / 65 kA	1750 V / 1500 V	100 A _{RMS}	25 kA / 50 kA	403 V	529 V / Safe Fail	1200 V	350 V / 305 V	1000 V / 1000 V	20 kA / 20 kA	200 kA	140 g (0.309 lb)

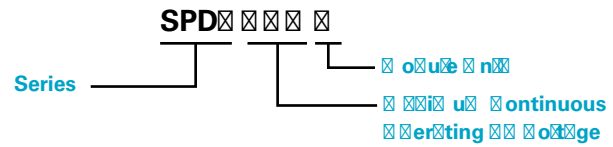
Surge Protection Devices

SPD2 PXX SERIES

oXue X Xse Pxt uX Xering SsteX



oXue X nX Pxt uX Xering SsteX



eXceX ent X oXue X rXering XorX Xtion

OXXXX NXX XX	IEC EXXXXX										UL EXXXXX				SXXXX UXX X XXXX
	NXX CXXXX UXX	OXX CXXXX CXXXX NXX-PE UXX	NXX CXXXX CXXXX NXX-PE UXX	OXX CXXXX CXXXX NXX-PE UXX	OXX CXXXX CXXXX NXX-PE UXX	OXX CXXXX CXXXX NXX-PE UXX	OXX CXXXX CXXXX NXX-PE UXX	OXX CXXXX CXXXX NXX-PE UXX	OXX CXXXX CXXXX NXX-PE UXX	OXX CXXXX CXXXX NXX-PE UXX	OXX CXXXX CXXXX NXX-PE UXX	OXX CXXXX CXXXX NXX-PE UXX	OXX CXXXX CXXXX NXX-PE UXX	OXX CXXXX CXXXX NXX-PE UXX	
SPD2-040-M	0 V	40 V / 305 V	20 kA / 40 kA	50 kA / 65 kA	1500 V (N-PE)	100 A _{RMS}	25 kA / 50 kA	N/A	N/A	1200 V	305 V (N-PE)	1000 V (N-PE)	20 kA / 20 kA	N/A	42 g (0.093 lb)
SPD2-075-M	60 V	75 V / 305 V	20 kA / 40 kA	50 kA / 65 kA	800 V / 1500 V	100 A _{RMS}	25 kA / 50 kA	114 V	114 V / Withstand	1200 V	75 V / 305 V	330 V / 1000 V	20 kA / 20 kA	100 kA	50 g (0.111 lb)
SPD2-150-M	120 V	150 V / 305 V	20 kA / 40 kA	50 kA / 65 kA	1250 V / 1500 V	100 A _{RMS}	25 kA / 50 kA	229 V	229 V / Withstand	1200 V	150 V / 305 V	600 V / 1000 V	20 kA / 20 kA	200 kA	54 g (0.120 lb)
SPD2-300-M	240 V	300 V / 305 V	20 kA / 40 kA	50 kA / 65 kA	1500 V / 1500 V	100 A _{RMS}	25 kA / 50 kA	337 V	442 V / Safe Fail	1200 V	300 V / 305 V	900 V / 1000 V	20 kA / 20 kA	150 kA	61 g (0.135 lb)
SPD2-350-M	277 V	350 V / 305 V	20 kA / 40 kA	50 kA / 65 kA	1750 V / 1500 V	100 A _{RMS}	25 kA / 50 kA	403 V	529 V / Safe Fail	1200 V	350 V / 305 V	1000 V / 1000 V	20 kA / 20 kA	200 kA	68 g (0.146 lb)

SpecXcXtions

Network Systems	TT, TN-S
Mode of Protection	L-N, N-PE
Nominal Discharge Current (8/20 μ s) (L-N / N-PE I _n)	20 kA/40 kA
Maximum Discharge Current (8/20 μ s) (L-N / N-PE I _{max})	50 kA/65 kA
Protective Elements	High Energy MOV and GDT
Response Time (L-N / N-PE t _A)	< 25 ns
Back-Up Fuse (max)	315 A/250 A Gg
Number of Ports	1
Mechanical & Environmental	
Operating Temperature Range (T _o)	-40 °C to +80 °C (-40 °F to +185 °F)
Permissible Operating Humidity (RH)	5% to 95%
Altitude (max)	4,000 m (13,123 ft)
Terminal Screw Torque (M _{max})	4.5 Nm (39.9 lbf-in)
Conductor Cross Section (max)	35 mm ² (2 AWG) (Solid, Stranded) / 25 mm ² (4 AWG) (Flexible)
Mounting	35 mm DIN Rail, EN60715
Degree of Protection	IP20 (built-in)
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0

Thermal Protection	Yes
Operating State/Fault Indication	Green Flag/No Green Flag
Remote Contact Switching Capacity	AC: 250 V/1 A, 125 V/1 A; DC: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A
Remote Contact Conductor Cross Section (max)	1.5 mm ² (16 AWG) (Solid)
Standards Passed	IEC 61643-11:2011 EN 61643-11:2012 UL 1449, 4th edition

Product Dimensions

2TE Module and Base

H 90.0 mm (3.54"); Φ 36.0 mm (1.42");
D 70.0 mm (2.76")

1TE Replacement Module

H 45.0 mm (1.77"); Φ 18.0 mm (0.71");
D 57.2 mm (2.25")

Package Dimensions

2TE Module and Base

H 102.0 mm (4.01"); Φ 46.0 mm (1.81");
D 110.0 mm (4.33")

1TE Replacement Module

H 102.0 mm (4.01"); Φ 28.0 mm (1.10");
D 110.0 mm (4.33")

Warranty – www.littelfuse.com/warranty

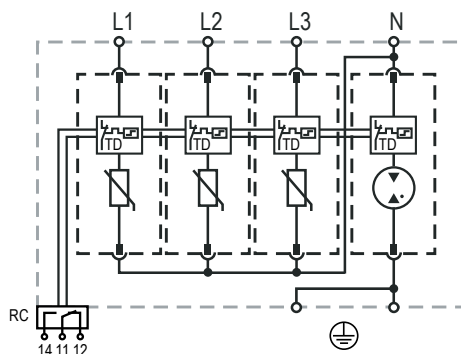
Surge Protection Devices

SPD2 P SERIES

Class II/Type 2/Type 1 CA Pluggable Multi-Pole



Internal Configuration



Legend

L	Line	RC	Remote Contacts
N	Neutral	TD	Thermal Disconnection
⊕	Protective Earth		

Description

Surge protection devices (SPDs) provide equipment protection from transient overvoltage events lasting micro-seconds. By limiting the overvoltage to the equipment during these events, costly damage and downtime can be mitigated.

The surge protection devices for the 3+1 configuration are available for 240 V to 277 V nominal voltage sub-distribution board applications.

Features & Benefits

Features	Benefits
Low residual voltage to clamp high energy transients	Ensures low-residual voltage during high-energy surge events and higher nominal discharge current to prevent disruption, downtime, and degradation or damage to equipment
One component can be utilized globally, reducing inventory needs and simplifying allocation of parts	One component can be utilized globally, reducing inventory needs and simplifying allocation of parts
Interlocking terminals	Secures module to withstand vibration
Overcurrent protection devices required in applications	Reduces the number of components and costs required for protection
Compact footprint	Increases panel design flexibility
Visual life indicator	Quick visual determines module replacement status to avoid loss of protection
Pluggable modules	Fast and simple to replace, minimizing maintenance and downtime. No tools required
Zero protection	Eliminates catastrophic failure
IPX protection rating	Finger-safe design increases worker protection

Module Case Rating Information

Order Number	IEC Ratings										UL Ratings				Standard Weight (kg) (lb)
	Nominal Voltage (V)	Rated Voltage (V)	Rated Current (A)	Rated Energy (kJ)	Rated Power (W)	Rated Surge Current (kA)	Rated Surge Voltage (kV)	Rated Short-Circuit Current (kA)	Nominal Voltage (V)	Rated Voltage (V)	Rated Current (A)	Rated Energy (kJ)	Rated Power (W)		
SPD2-300-3P1-R	240 V	300 V/ 305 V	20 kA/ 40 kA	50 kA/ 65 kA	1500 V/ 1500 V	100 A _{RMS}	25 kA/ 50 kA	337 V	442 V/ Safe Fail	1200 V	300 V/ 305 V	900 V/ 1000 V	20 kA/ 20 kA	150 kA	486 g (1.072 lb)
SPD2-350-3P1-R	277 V	350 V/ 305 V	20 kA/ 40 kA	50 kA/ 65 kA	1750 V/ 1500 V	100 A _{RMS}	25 kA/ 50 kA	403 V	529 V/ Safe Fail	1200 V	350 V/ 305 V	1000 V/ 1000 V	20 kA/ 20 kA	200 kA	501 g (1.105 lb)

Surge Protection Devices

SPD2 P SERIES

Class 2 (IEC)/Type 2 (EN)/Type 1CA (UL)
Pluggable Multi-Pole for PV Systems



Description

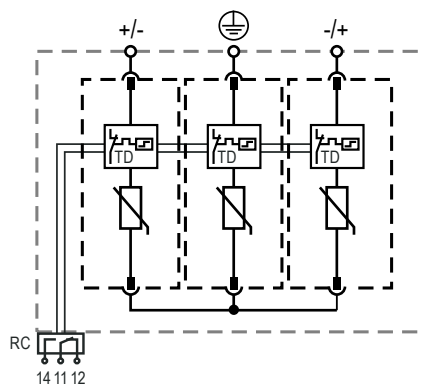
Surge protective devices (SPDs) provide equipment protection from transient overvoltage events lasting micro-seconds. By limiting the overvoltage to the equipment during these events, costly damage and downtime can be mitigated.

The surge protective devices for solar string box and inverter applications are available in 1100 and 1500 V dc in the 3+0 configuration.

Features & Benefits

Features	Benefits
High to common mode transient surge energy	Ensures low-residual voltage during high-energy surge events and higher nominal discharge current to prevent disruption, downtime, and degradation or damage to equipment
Overcurrent protection devices required in applications	Reduces the number of components and costs required for protection
Compact footprint	Increases panel design flexibility
Visual indicator	Quick visual determines module replacement status to avoid loss of protection
Pluggable modules	Fast and simple to replace, minimizing maintenance and downtime. No tools required
Zero protection	Eliminates catastrophic failure
Finger-safe protection rating	Finger-safe design increases worker protection

Internal Configuration



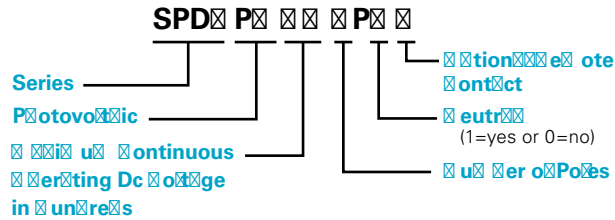
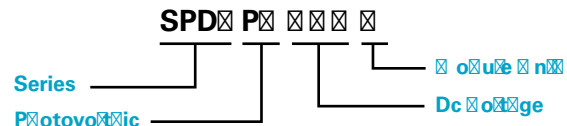
Legend

- ⊕ Protective Earth
- RC Optional Remote Contact
- TD Thermal Disconnection

Module Case Rating Information

Ordering Information	IEC Example						UL Example				Shipping Weight
	Rated Voltage C _{max} O _{max} D _{max} UL C _{max}	Nominal Discharge Current D _{max} C _{max} UL C _{max}	Rated Voltage D _{max} C _{max} UL C _{max}	Rated Voltage D _{max} C _{max} UL C _{max}	Rated Voltage D _{max} C _{max} UL C _{max}	Surge Current C _{max} C _{max} R _{max} SCPD	Rated Voltage P _{max} D _{max} UL C _{max}	Rated Voltage P _{max} R _{max} PR	Nominal Discharge Current D _{max} C _{max} UL C _{max}	Surge Current C _{max} C _{max} R _{max} SCCR	
SPD2-PV11-3P0 SPD2-PV11-3P0-R	1100 V	20 kA	40 kA	50 kA	4200 V	9 kA	1100 V	3000 V	20 kA	50 kA	333 g (0.734 lb)
SPD2-PV15-3P0 SPD2-PV15-3P0-R	1500 V	15 kA	40 kA	40 kA	4800 V	9 kA	1500 V	4000 V	20 kA	65 kA	363 g (0.800 lb)

Surge Protection Devices

SPD2 P_{XX} SERIESSPD_{XX} P_{XX} Part Numbering SystemSPD_{XX} P_{XX} Part Numbering System

Electrical and Mechanical Ratings

Ordering Code	IEC Ratings						UL Ratings				Weight
	Rated Voltage (V)	Rated Current (A)	Rated Voltage (V)	Rated Current (A)	Rated Voltage (V)	Rated Current (A)	Rated Voltage (V)	Rated Current (A)	Rated Voltage (V)	Rated Current (A)	
SPD2-PV550-M	1100 V	20 kA	40 kA	50 kA	4200 V	9 kA	1100 V	3000 V	20 kA	50 kA	61 g (0.134 lb)
SPD2-PV750-M	1500 V	15 kA	40 kA	40 kA	4800 V	9 kA	1500 V	4000 V	20 kA	65 kA	71 g (0.157 lb)

Specifications

Mode of Protection	(+) - PE, (-) - PE, (+) - (-)
Nominal Discharge Current (8/20 μs) (I _n)	20 kA
Maximum Discharge Current (8/20 μs) (I _{max})	Up to 40 kA
Protective Elements	High Energy MOV
Response Time (t _A)	< 25 ns
Number of Ports	1
Mechanical & Environmental	
Operating Temperature Range (T _a)	-40 °C to +80 °C (-40 °F to +185 °F)
Permissible Operating Humidity (RH)	5% to 95%
Altitude (max)	4,000 m (13,123 ft)
Terminal Screw Torque (M _{max})	4.5 Nm (39.9 lbf-in)
Conductor Cross Section (max)	35 mm ² (2 AWG) (Solid, Stranded)/ 25 mm ² (4 AWG) (Flexible)
Mounting	35 mm DIN Rail, EN60715
Degree of Protection	IP20 (built-in)
Housing Material	Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection	Yes

Operating State/Fault Indication	Green Flag/No Green Flag
Remote Contact Switching Capacity	Ac: 250 V/1 A, 125 V/1 A; Dc: 48 V/0.5 A, 24 V/0.5 A, 12 V/0.5 A
Remote Contact Conductor Cross Section (max)	1.5 mm ² (16 AWG) (Solid)
Standards Passed	EN 50539-11:2013+A1:2014 UL 1449 4th Edition; E320116

Product Dimensions	
3TE Module and Base	H 90.7 mm (3.57"); W 53.8 mm (2.11"); D 66.1 mm (2.60")
1TE Replacement Module	H 45.0 mm (1.77"); W 18.0 mm (0.71"); D 57.2 mm (2.25")
Package Dimensions	
3TE Module and Base	H 102.0 mm (4.01"); W 64.0 mm (2.52"); D 110.0 mm (4.33")
1TE Replacement Module	H 102.0 mm (4.01"); W 28.0 mm (1.10"); D 110.0 mm (4.33")

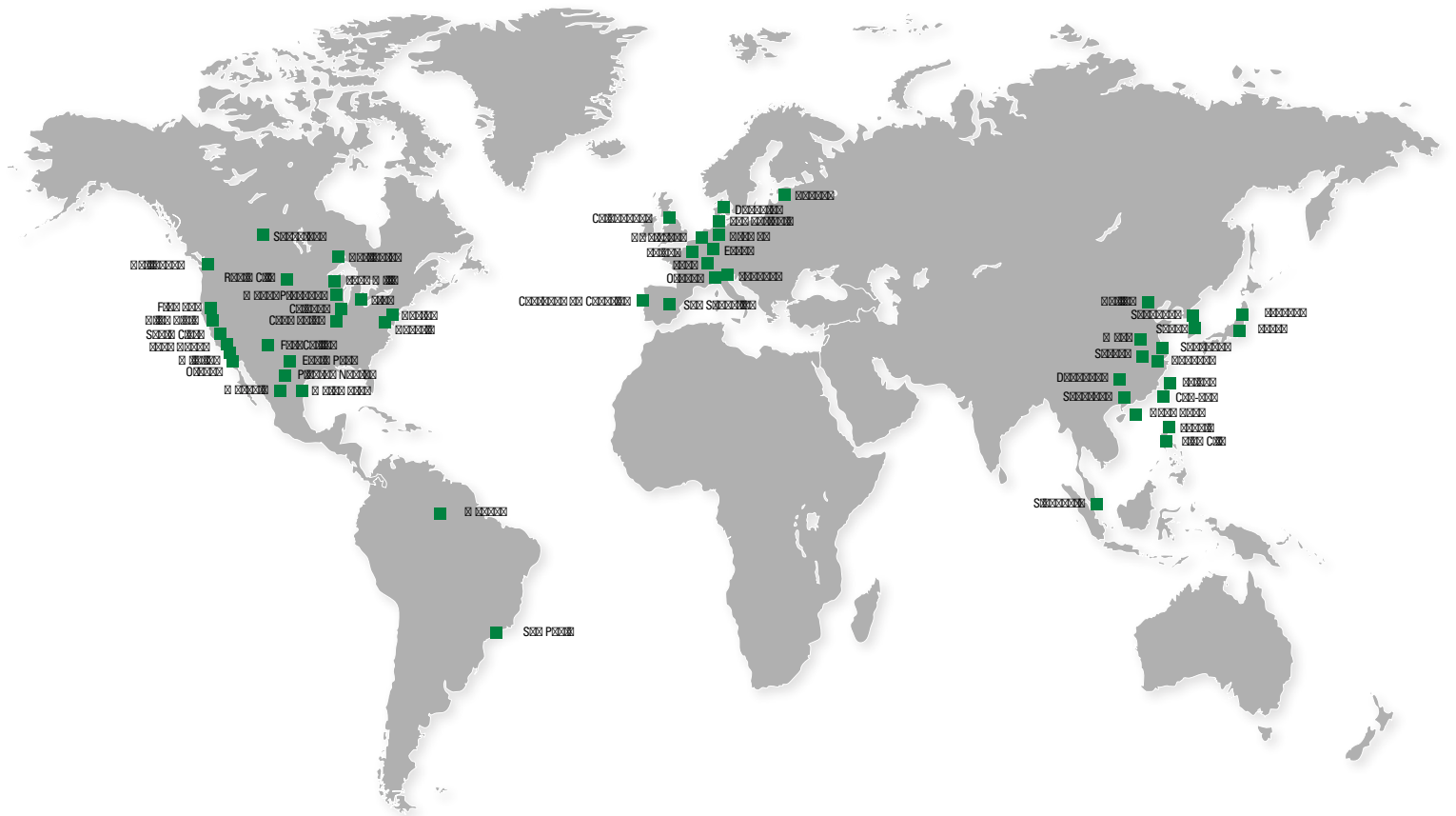
Warranty - www.littelfuse.com/warranty

Surge Protection Devices

SPD2 SERIES CROSS-REFERENCE GUIDE

This cross-reference tool includes the most popular Type 2 surge protection devices. It is meant to serve as a guide for quick identification and product selection. Please check all applicable specifications prior to making a product substitution or selection.

Littelfuse PXXXXNXXX XXXX	Surge Device Type	Nominal AC or DC Voltage	Number of Poles	Neutral	ABB PXXXXNXXX XXXX	Bourns PXXXXNXXX XXXX	Citel PXXXXNXXX XXXX	DEHN PXXXXNXXX XXXX	Phoenix Contact PXXXXNXXX XXXX	Raycap PXXXXNXXX XXXX
SPD2-075-1P0-R	2	75 V ac	1	No	OVR T2 15-75 P TS	—	—	DEHNguard S 48 FM	VAL-MS 60/FM	ProTec T2-75-1+0-R
SPD2-075-1P1-R	2	75 V ac	1	Yes	—	—	DS240S-75VDC	—	VAL-VS- 48/40/1+1-FM	ProTec T2-75-1+1-R
SPD2-150-1P0-R	2	150 V ac	1	No	OVR T2 40-150 P TS U	1250-1S-120	DS41S-120	DEHNguard SU 1P 120 R	VAL-US- 120/40/1+0-FM	ProTec T2-150-1+0-R
SPD2-150-2P0-R	2	150 V ac	2	No	OVR T2 1N 40-150 P TS U	1250-2S-120	DS42S-120	DEHNguard MU SP 240 3W+G R	VAL-US- 120/40/2+0-FM	ProTec T2-150-2+0-R
SPD2-150-3P0-R	2	150 V ac	3	No	OVR T2 2N 40-150 P TS U	1250-3S-120	DS43S-120	DEHNguard MU 3PY 208 3W+G R	VAL-SEC-T2- 3C-175-FM	ProTec T2-150-3+0-R
SPD2-150-4P0-R	2	150 V ac	4	No	OVR T2 3N 40-150 P TS U	1250-4S-120	DS44S-120	DEHNguard MU 3PY 208 4W+G R	VAL-US- 120/40/3+1-FM	ProTec T2-150-4+0-R
SPD2-150-1P1-R	2	150 V ac	1	Yes	—	—	DS42S-120/G	—	VAL-SEC-T2- 1S-175-FM	ProTec T2-150-1+1-R
SPD2-300-1P0-R	2	300 V ac	1	No	OVR T2 40-275 P TS QS	1250-1S-230	DS41S-230	DEHNguard SU 1P 240 R	VAL-US- 277/40/1+0-FM	ProTec T2-300-1+0-R
SPD2-300-2P0-R	2	300 V ac	2	No	OVR T2 1N 40-275 P TS QS	1250-2S-230	DS42S-230	DEHNguard MU SP 480 3W+G R	VAL-MS 230/2+0-FM	ProTec T2-300-2+0-R
SPD2-300-3P0-R	2	300 V ac	3	No	OVR T2 3L 40-275 P TS QS	1250-3S-230	DS43S-230	DEHNguard M TNC 275 FM	VAL-CP- 3C-350	ProTec T2-300-3+0-R
SPD2-300-4P0-R	2	300 V ac	4	No	OVR T2 4L 40-275 P TS QS	1250-4S-230	DS44S-230	DEHNguard M TNS 275 FM	VAL-US- 277/40/4+0-FM	ProTec T2-300-4+0-R
SPD2-300-1P1-R	2	300 V ac	1	Yes	OVR T2 1N 40-275 P TS QS	—	DS42S-230/G	DEHNguard MU 3PY 480 4W+G R	VAL-MS 230/1+1-FM	ProTec T2-300-1+1-R
SPD2-300-3P1-R	2	300 V ac	3	Yes	OVR T2 3N 40-275 P TS QS	—	DS44S-230/G	DEHNguard M TT 275 FM	VAL-MS 230/3+1-FM	ProTec T2-300-3+1-R
SPD2-350-1P0-R	2	350 V ac	1	No	OVR T2 40-320 P TS U	1250-1S-400	DS41S-400	DEHNguard SU 1P 347 R	—	ProTec T2-350-1+0-R
SPD2-350-2P0-R	2	350 V ac	2	No	OVR T2 1N 40-320 P TS U	1250-2S-400	DS42S-400	—	VAL-SEC-T2- 2C-350-FM	ProTec T2-350-2+0-R
SPD2-350-3P0-R	2	350 V ac	3	No	OVR T2 3L 40-320 P TS U	1250-3S-400	DS43S-400	DEHNguard MU 3PY 480 3W+G R	VAL-SEC-T2- 3C-350-FM	ProTec T2-350-3+0-R
SPD2-350-4P0-R	2	350 V ac	4	No	OVR T2 3N 40-320 P TS U	1250-4S-400	DS44S-400	DEHNguard M TNS 385 FM	—	ProTec T2-350-4+0-R
SPD2-350-1P1-R	2	350 V ac	1	Yes	OVR T2 1N 40-350 P TS QS	—	—	DEHNguard M TT 2P 385 FM	VAL-SEC-T2- 1S-350-FM	ProTec T2-350-1+1-R
SPD2-350-3P1-R	2	350 V ac	3	Yes	—	—	—	DEHNguard M TT 385 FM	VAL-SEC-T2- 3S-350-FM	ProTec T2-350-3+1-R
SPD2-480-1P0-R	2	480 V ac	1	No	OVR T2 40-440 P TS U	1250-1S-480	DS41S-400	DEHNguard S 440 FM	VAL-US- 347/30/1+0-FM	ProTec T2-480-1+0-R
SPD2-480-2P0-R	2	480 V ac	2	No	OVR T2 1N 40-440 P TS U	1250-2S-480	DS42S-400	—	VAL-US- 347/30/1+1V-FM	ProTec T2-480-2+0-R
SPD2-480-3P0-R	2	480 V ac	3	No	OVR T2 3L 40-440 P TS U	1250-3S-480	DS43S-400	DEHNguard MU 3PY 600 3W+G R	VAL-US- 347/30/3+0-FM	ProTec T2-480-3+0-R
SPD2-480-4P0-R	2	480 V ac	4	No	OVR T2 3N 40-440 P TS U	1250-4S-480	DS44S-400	DEHNguard MU 3PY 600 4W+G R	—	ProTec T2-480-4+0-R
SPD2-550-1P0-R	2	550 V ac	1	No	OVR T2 40-550 P TS U	—	DS41S-600	DEHNguard S 600 FM	VAL-US- 480D/30/1+0-FM	ProTec T2-550-1+0-R
SPD2-550-2P0-R	2	550 V ac	2	No	OVR 1N 40-550 P TS U	—	—	—	VAL-US- 480D/30/2+0-FM	ProTec T2-550-2+0-R
SPD2-550-3P0-R	2	550 V ac	3	No	OVR T2 3L 40-550 P TS U	—	—	DEHNguard MU 3PD 480 3W+G R	VAL-US- 480D/30/3+0-FM	ProTec T2-550-3+0-R
SPD2-550-4P0-R	2	550 V ac	4	No	OVR T2 3N 40-550 P TS U	—	—	—	VAL-US- 480HLD/30/3+1-FM	ProTec T2-550-4+0-R
SPD2-750-1P0-R	2	750 V ac	1	No	OVR T2 40-600 P TS QS	—	—	DEHNguard S WE 600 FM	—	ProTec T2-750-1+0-R
SPD2-750-2P0-R	2	750 V ac	2	No	—	—	—	—	—	ProTec T2-750-2+0-R
SPD2-750-3P0-R	2	750 V ac	3	No	OVR T2 3L 40-600 P TS QS	—	DS43S-690WD	DEHNguard M WE 600 FM	VAL-MS 750/30/3+0 FM	ProTec T2-750-3+0-R
SPD2-PV11-3P0-R	2	1100 V dc	3	No	OVR PV 40-800 P TS U	1420-PV-1000	DS50VGPVS-1000	DEHNguard M YPV 1200 FM	VAL-MS 1000 DC-PV/2+V-FM	ProTec T2-1100PV-3+0-R
SPD2-PV15-3P0-R	2	1500 V dc	3	No	OVR PV 40-1500H P TS U	—	DV50VGPVS-1500	DEHNguard M YPV 1500 FM	VAL-MB-T2 1500 DC-PV/2+V-FM	ProTec T2-1500PV-3+0-R



In addition to our surge protection devices, our product portfolio includes a comprehensive line of fuses, fuse holders, protection relays, and timers to minimize electrical safety hazards, limit equipment damage, improve productivity, and safeguard personnel from injury due to electrical faults.



PXXXXXXXXXXXXXXXXX RXXXXXXXXX CXXXXXXXX

- Custom OEM Products
- Distributor & Splicer Blocks
- Electrical Switch Panels
- Fuse Blocks & Holders
- Medium Voltage Fuses
- POWR-SPEED® Fuses
- Solar Fuses
- UL Class Fuses
- 10 x 38 mm Fuses
- Arc-Flash Protection Relays
- Feeder Protection
- Ground-Check Relays
- Ground-Fault Protection Relays
- Industrial Shock-Block® GFCI
- Motor & Pump Protection
- Resistance Grounding/
Monitoring
- Single-Function Relays
- Timers & Flashers

For a comprehensive list of products, visit [littleuse.com](https://www.littleuse.com)

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