



PSP Series Panel SPDs

Prosurge PSP series panel SPDs are defined as one-stop high performance surge protection solution for most commercial and industrial environments with critical operations, include Type 1 and Type 2 Surge Protective Devices that protect against the risk of the harmful effects of transient surges. These surges are the result of:

- Direct and indirect lightning strikes
- Power company load switching
- Upstream load switching at other facilities

Rating :

- **MCOV (Vac): 150V~690V**
- **Surge capacity (8/20µs): 25~600kA per phase**
- **Short circuit current rating (SCCR): 200kArms - tested without external CB or fuse**

Features:

- UL Listed Type 1 (ANSI/UL1449 5th, CSA C22.2) SPDs
- UL Listed Type 2 (ANSI/UL1449 5th, CSA C22.2) SPDs with sine wave tracking
- Prosurge patented SCCR 200kArms thermally protected MOV technology (PTMOV/20PTMOV) as key component
- Full modes protection & High surge energy capability in compact size
- Sine wave tracking function optional (for UL Type 2 listed model, UL1283 listed EMI/RFI filter for C series)
- Low voltage protection rating
- Waterproof plastic/metal enclosure to resist dirt, dust and water
- Failure indication
- Surge event counter optional
- Floating changeover contact for remote alarm
- Threaded NPT

Typical Application:

- Commercial
- Industrial
- Communications
- Renewable energy
- Critical power (hospitals, data centers, etc.)



Adopt PTMOV/20PTMOV as Key Component





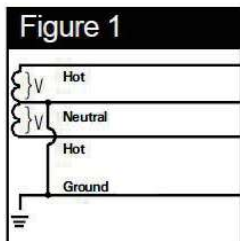
Configuration & Ordering Information:

PSP Model	277Y Voltage and system configuration	C Protection mode	42 Surge capacity	M Enclosure	/T1 SPD Category	CTA Additional function
<i>Model:</i> <u>PSP</u> <u>20PSP</u> <u>HPSP</u>	<u>120SP</u> : 120/240V split <u>240SP</u> : 240/480V split <u>120Y</u> : 120/208V WYE <u>277Y</u> : 277/480V WYE <u>120H</u> : 120/240V high-leg delta <u>240D</u> : 240V delta <u>120S</u> : 120V 1ph, 2W+G ...	<u>C</u> : Delete N-G protection mode	<u>11</u> : 25kA(or 50*)/phase <u>12</u> : 50kA(or 100*)/phase <u>22</u> : 100kA(or 200*)/phase <u>32</u> : 150kA(or 300*)/phase <u>42</u> : 200kA(or 400*)/phase <u>52</u> : 250kA(or 500*)/phase <u>62</u> : 300kA(or 600*)/phase	<u>M</u> : metal enclosure (Only C2 type) *Part No. without M means plastic enclosure (E, B, C1 type)	<u>T1</u> : UL type 1 SPD <u>T2</u> : UL type 2 SPD with sine wave tracking	<u>C</u> : surge event counter <u>T</u> : failure pretest <u>A</u> : remote alarm

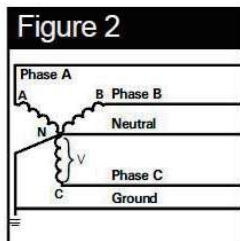
Note: * While 20PTMOV is used, only for specify model.

Voltage code for power distribution system

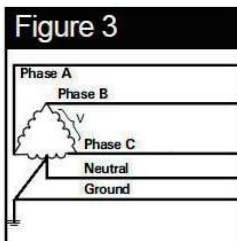
- 120SP , 240SP = 120/240V; 240/480V **Split-phase three-wire +ground (Figure 1)**
- 120Y, 127Y, 240Y, 277Y, 347Y = 208Y120V, 220Y127V, 380Y220V & 400Y230V & 415Y240V, 480Y277V, 600Y347V **Three-phase wye (star) four-wire +ground (Figure 2)**
- 120H, 240H = 120/240V, 240V/480V **Three-phase high-leg delta (Figure 3)**
- 240D, 480D, 600D = 240V, 480V, 600V..... **Three-phase delta three-wire +ground (Figure 4)**
- 120S, 127S, 240S, 277S, 347S = 120V, 127V, 220V&230V&240V, 277V, 347V **Single-phase two-wire +ground (Figure 5)**



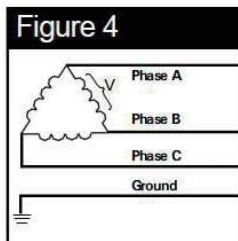
SPLIT
2 Hots, 1 Neu, 1 Grnd



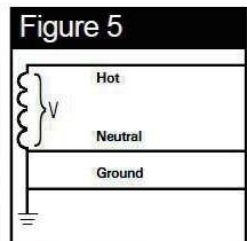
WYE
3 Hots, 1 Neu, 1 Grnd



HI-LEG DELTA (B High)
3 Hots, (B HIGH),
1 Neu, 1 Grnd



DELTA & HRG WYE
3 Hots, 1 Grnd



SINGLE POLE
1 Hot, 1 Neu, 1 Grnd



Panel SPDs | 25-50kA | Multi-phase **PSP E**

PSP E series panel SPDs are extra compact UL Type 1 SPD designed to protect single phase and multi-phase electrical distribution systems against the harmful effects of transient surges. They are constructed with Prosurge's PTMOV which has a significant advantage in abnormal over-voltage & high fault current safety and thus ensure industry's highest level of safety and performance. They are tested and listed as Type 1 SPD, ANSI/UL1449 5th, CSA C22.2.



PSP Category	PSP E
Certification	ANSI / UL 1449 5th, CSA C22.2, Type 1
Connection Type	Parallel Connected
Nominal Voltage (AC)	120-600V
Surge Capacity	25-50kA per phase
Nominal Discharge Current (In)	10kA
SCCR	200kArms
Power Status Indication	Normal= LED ON
Working Status Indication	Fail= LED OFF
Power Connecting	12AWG (L=black; N=white; PE=green)
Working Environments	Temperature: -40°C~+80°C; Humidity relative 5~95% (25°C); Altitude: ≤3km
Dimensions, W x D x H	90 x 58 x 41 mm
Enclosure	Waterproof plastic enclosure
Threaded NPT	1/2"NPT
Net Weight (Typical Value)	0.18 kg

Typical Application:

- Outdoor/Indoor and commercial LED lighting
- Medical electronics
- Manufacturing facilities
- Telecommunication equipment
- Security & alarm equipment
- Other critical electronic equipment

PSPE (In:10kA) - Technical Data:

Model No.	System Voltage (50/60Hz)	In (kA)	Protected Mode				Voltage Protection Ratings (VPR @6kV/ 3kA.V)				Surge Capacity per phase	MCOV (Vac)
			L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L		
PSPE120SP11/T1	120/240V Split-phase	10	x	✓	x	✓	-	700	-	1500	25kA	150/300
PSPE120SP12/T1			x	✓	x	✓	-	700	-	1200	50kA	150/320
PSPE120SPN11/T1	120/240V Split-phase	10	✓	x	x	✓	700	-	-	1500	25kA	150/300
PSPE120SPN12/T1			✓	x	x	✓	700	-	-	1200	50kA	150/320
PSPE120SPNG11/T1			✓	✓	✓	✓	800	1500	800	1500	25kA	150/300
PSPE240SP11/T1	240/480V Split-phase	10	x	✓	x	✓	-	1200	-	2500	25kA	320/640
PSPE240SP12/T1			x	✓	x	✓	-	1200	-	1800	50kA	320/550
PSPE240SPN11/T1	240/480V Split-phase	10	✓	x	x	✓	1200	-	-	2500	25kA	320/640
PSPE240SPN12/T1			✓	x	x	✓	1200	-	-	1800	50kA	320/550
PSPE240SPNG11/T1			✓	✓	✓	✓	1200	2500	1200	2500	25kA	320/640
PSPE127S11/T1	127V Single-phase	10	✓	✓	✓	x	1500	700	700	-	25kA	150
PSPE127S12/T1			✓	✓	✓	x	700	700	700	-	50kA	150
PSPE277S11/T1	277V Single-phase	10	✓	✓	✓	x	2500	1200	1200	-	25kA	320
PSPE277S12/T1			✓	✓	✓	x	1200	1200	1200	-	50kA	320
PSPE347S11/T1	347V Single-phase	10	✓	✓	✓	x	3000	1500	1500	-	25kA	420
PSPE347S12/T1			✓	✓	✓	x	1500	1500	1500	-	50kA	420

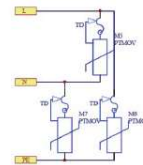
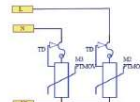
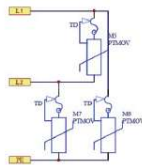
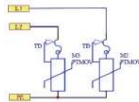


Model No.	System Voltage (50/60Hz)	In (kA)	Protected Mode				Voltage Protection Ratings (VPR @6kV/ 3kA,V)				Surge Capacity per phase	MCOV (Vac)
			L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L		
PSPE240D11/T1	240V Three-phase delta	10	x	✓	x	✓	-	1200	-	2500	25kA	320
PSPE480D11/T1	480V Three-phase delta	10	x	✓	x	✓	-	1800	-	4000	25kA	550
PSPE600D11/T1	600V Three-phase delta	10	x	✓	x	✓	-	2500	-	4000	25kA	690
PSPE120YC11/T1	208Y120V Three-phase wye No neutral	10	x	✓	x	✓	-	800	-	1500	25kA	150
PSPE127YC11/T1	220Y127V Three-phase wye No neutral	10	x	✓	x	✓	-	800	-	1500	25kA	150
PSPE240YC11/T1	415Y240V Three-phase wye No neutral	10	x	✓	x	✓	-	1200	-	2500	25kA	320
PSPE277YC11/T1	480Y277V Three-phase wye No neutral	10	x	✓	x	✓	-	1200	-	2500	25kA	320
PSPE347YC11/T1	600Y347V Three-phase wye No neutral	10	x	✓	x	✓	-	1500	-	3000	25kA	420
PSPE120YN11/T1	208Y120V Three-phase wye 4W	10	✓	x	x	✓	800	-	-	1500	25kA	150
PSPE127YN11/T1	220Y127V Three-phase wye 4W	10	✓	x	x	✓	800	-	-	1500	25kA	150
PSPE240YN11/T1	415Y240V Three-phase wye 4W	10	✓	x	x	✓	1200	-	-	2500	25kA	320
PSPE277YN11/T1	480Y277V Three-phase wye 4W	10	✓	x	x	✓	1200	-	-	2500	25kA	320
PSPE347YN11/T1	600Y347V Three-phase wye 4W	10	✓	x	x	✓	1500	-	-	3000	25kA	420

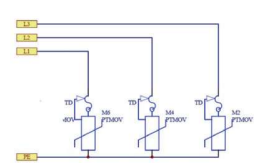
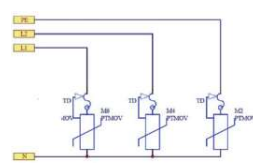
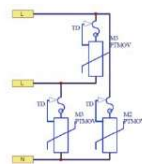
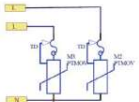


PSP E - Basic Circuit Diagram

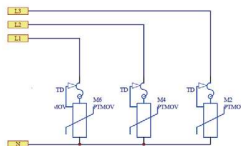
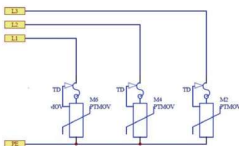
PSPE...	PSPE...SP11...	PSPE...SP12...	PSPE...S11...	PSPE...S12...
Un/ Power System (50/60Hz)	120/240VAC split phase 240/480VAC split phase	120/240VAC split phase 240/480VAC split phase ...	120VAC single phase 127VAC single phase 240VAC single phase 277VAC single phase 347VAC single phase ...	120VAC single phase 127VAC single phase 240VAC single phase 277VAC single phase 347VAC single phase ...



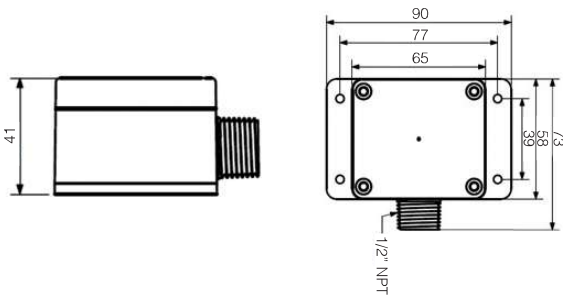
PSPE...	PSPE...SPN11...	PSPE...SPN12...	PSPE...SPNG11...	PSPE...D11...
Un/ Power System (50/60Hz)	120/240VAC split phase 240/480VAC split phase	120/240VAC split phase 240/480VAC split phase ...	120/240VAC split phase 240/480VAC split phase	240VAC three phase Delta 480VAC three phase Delta 600VAC three phase Delta



PSPE...	PSPE...YC11...	PSPE...YN11...
Un/ Power System (50/60Hz)	120/208VAC three phase WYE 240/415VAC three phase WYE 347/600VAC three phase WYE	120/208VAC three phase WYE 240/415VAC three phase WYE 347/600VAC three phase WYE



- Dimension drawing



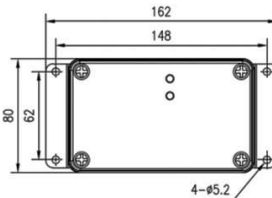
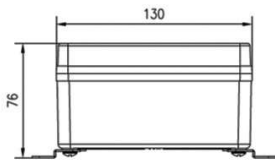


Prosurge PSP B series panel SPDs are compact Surge Protective Devices (SPDs), designed to protect single and multi-phase electrical distribution systems against the risk of the harmful effects of transient surges.



PSP Category	PSP B
Certification	ANSI / UL 1449 5th, CSA C22.2, Type 1, Type 2
Connection Type	Parallel Connected
Nominal Voltage (AC)	120-600V
Surge Capacity	50kA per phase
Nominal Discharge Current (In)	10kA
SCCR	200kArms
Sine Wave Tracking	For UL Type 2 listed
Power Status Indication	Normal=Power LED ON
Working Status Indication	Fail=Surge protection LED ON
Power Connecting	12 AWG (L1=black; L2=red; L3=blue; N=white; PE=green)
Signal Cable (Remote Alarm)	16 AWG (C=red; NC=blue; NO=brown)
Working Environment	Temperature: -40°C~+75°C; Humidity relative 5~95% (25°C); Altitude: ≤3km
Dimensions, W x D x H	162 x 80 x 76 mm
Threaded NPT	1/2"NPT
Enclosure	Waterproof plastic enclosure
Net Weight (Typical Value)	0.47 kg

- Dimension drawing



Typical Application:

In low & medium exposure locations

- Commercial
- Industrial
- Communications
- Renewable energy
- Critical power (hospitals, data centers, etc.)

PSP B (In:10kA) - Technical Data:

Model No.	System Voltage (50/60Hz)	In (kA)	Protected Mode				Voltage Protection Ratings (VPR @6kV/ 3kA,V)				Surge Capacity per phase	MCOV (Vac)
			L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L		
PSP120SP12/*A	120/240V Split-phase	10	✓	✓	✓	✓	700	700	700	1200	50kA	150/300
PSP120SPC12/*A	120/240V Split-phase No neutral	10	✗	✓	✗	✓	-	700	-	1200	50kA	150/300
PSP240SP12/*A	240/480V Split-phase	10	✓	✓	✓	✓	1200	1200	1200	2000	50kA	320/640
PSP240SPC12/*A	240/480V Split-phase No neutral	10	✗	✓	✗	✓	-	1200	-	2000	50kA	320/640
PSP120Y12/*A	208Y120V Three-phase wye	10	✓	✓	✓	✓	700	700	700	1200	50kA	150
PSP120YC12/*A	208Y120V Three-phase wye No neutral	10	✗	✓	✗	✓	-	700	-	1200	50kA	150
PSP127Y12/*A	220Y127V Three-phase wye	10	✓	✓	✓	✓	700	700	700	1200	50kA	150
PSP127YC12/*A	220Y127V Three-phase wye No neutral	10	✗	✓	✗	✓	-	700	-	1200	50kA	150
PSP240Y12/*A	415Y240V Three-phase wye	10	✓	✓	✓	✓	1200	1200	1200	2000	50kA	320
PSP240YC12/*A	415Y240V Three-phase wye No neutral	10	✗	✓	✗	✓	-	1200	-	2000	50kA	320
PSP277Y12/*A	480Y277V Three-phase wye	10	✓	✓	✓	✓	1200	1200	1200	2000	50kA	320
PSP277YC12/*A	480Y277V Three-phase wye No neutral	10	✗	✓	✗	✓	-	1200	-	2000	50kA	320
PSP347Y12/*A	600Y347V Three-phase wye	10	✓	✓	✓	✓	1500	1500	1500	2500	50kA	420
PSP347YC12/*A	600Y347V Three-phase wye No neutral	10	✗	✓	✗	✓	-	1500	-	2500	50kA	420
PSP120H12/*A	120/240V High-leg delta	10	✓	✓	✓	✓	700-1200HL	700-1200HL	700	1200-2000HL	50kA	150/320(HL)
PSP120HC12/*A	120/240V High-leg delta No neutral	10	✗	✓	✗	✓	-	700-1200HL	-	1200-2000HL	50kA	150/320(HL)
PSP240H12/*A	240/480V High-leg delta	10	✓	✓	✓	✓	1200-1800HL	1200-1800HL	1200	2000-3000HL	50kA	320/550(HL)



PSP B - Technical Data:

Model No.	System Voltage (50/60Hz)	In (kA)	Protected Mode				Voltage Protection Ratings (VPR @6kV/ 3kA,V)				Surge Capacity per phase	MCOV (Vac)
			L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L		
PSP240HC12/*A	240/480V High-leg delta No neutral	10	x	✓	x	✓	-	1200-1800HL	-	-	50kA	320/550(HL)
PSP240D12/*A	240V Three-phase delta	10	x	✓	x	✓	-	1200	-	1200	50kA	320
PSP480D12/*A	480V Three-phase delta	10	x	✓	x	✓	-	1800	-	2000	50kA	550
PSP600D12/*A	600V Three-phase delta	10	x	✓	x	✓	-	2000	-	4000	50kA	690
PSP120S12/*A	120V Single-phase	10	✓	✓	✓	x	700	700	700	-	50kA	150
PSP127S12/*A	127V Single-phase	10	✓	✓	✓	x	700	700	700	-	50kA	150
PSP240S12/*A	240V Single-phase	10	✓	✓	✓	x	1200	1200	1200	-	50kA	320
PSP277S12/*A	277V Single-phase	10	✓	✓	✓	x	1200	1200	1200	-	50kA	320
PSP347S12/*A	347V Single-phase	10	✓	✓	✓	x	1500	1500	1500	-	50kA	420

PSP B - Basic Circuit Diagram

Un/ Power System (50/60 HZ)	Basic Surge Protection Circuit Diagram	
	Power System with Neutral Line	Power System without Neutral Line
120/240VAC split phase 240/480VAC split phase ...	PSP...SP12...(3W+G) 	PSP...SPC12...(2W+G)
120VAC single phase 127VAC single phase 220VAC single phase 230VAC single phase 240VAC single phase 277VAC single phase 347VAC single phase ...	PSP...S12...(2W+G) 	
120/208VAC WYE 127/220VAC WYE 220/380VAC WYE 230/400VAC WYE 240/415VAC WYE 277/480VAC WYE 347/600VAC WYE ...	PSP...Y12...(4W+G) 	PSP...YC12...(3W+G)
240VAC Delta 480VAC Delta 600VAC Delta ...		PSP...D12...(3W+G)
120/240VAC High-leg delta 240/480VAC High-leg delta ...	PSP...H12...(4W+G, L2 is High-leg) 	PSP...HC12...(3W+G, L2 is High-leg)

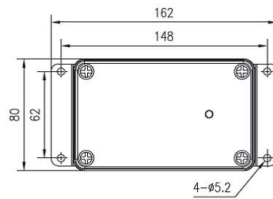
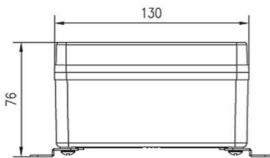


Prosurge 20PSP B series panel SPDs are compact Surge Protective Devices (SPDs) with nominal discharge current as 20kA , designed to protect single and multi-phase electrical distribution systems against the risk of the harmful effects of transient surges.



PSP Category	20PSP B
Certification	ANSI / UL 1449 5th, CSA C22.2, Type 1, Type 2
Connection Type	Parallel Connected
Nominal Voltage (AC)	120-480V
Surge Capacity	50-100kA per phase
Nominal Discharge Current (In)	20kA
SCCR	200kArms
Sine Wave Tracking	For UL Type 2 listed
Power Status Indication	Normal=Power LED ON
Working Status Indication	Fail=Surge protection LED ON
Power Connecting	12 AWG (L1=black; L2=red; L3=blue; N=white; PE=green)
Signal Cable (Remote Alarm)	16 AWG (C=red; NC=blue; NO=brown)
Working Environment	Temperature: -40°C~+75°C; Humidity relative 5~95% (25°C); Altitude: ≤3km
Dimensions, W x D x H	162 x 80 x 76 mm
Threaded NPT	1/2"NPT
Enclosure	Waterproof plastic enclosure
Net Weight (Typical Value)	0.53 kg

- Dimension drawing



Typical Application:

In low & medium exposure locations

- Commercial
- Industrial
- Communications
- Renewable energy
- Critical power (hospitals, data centers, etc.)

20PSP B (Surge capacity 100kA) - Technical Data:

Model No.	System Voltage (50/60Hz)	In (kA)	Protected Mode				Voltage Protection Ratings (VPR @6kV/ 3kA,V)				Surge Capacity per phase	MCOV (Vac)
			L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L		
20PSP120SP12/*A	120/240V Split-phase	20	✓	✓	✓	✓	700	700	700	1200	100kA	150/300
20PSP120SPC12/*A	120/240V Split-phase No neutral	20	✗	✓	✗	✓	-	700	-	1200	100kA	150/300
20PSP240SP12/*A	240/480V Split-phase	20	✓	✓	✓	✓	1200	1200	1200	2000	100kA	320/640
20PSP240SPC12/*A	240/480V Split-phase No neutral	20	✗	✓	✗	✓	-	1200	-	2000	100kA	320/640
20PSP120Y12/*A	208Y120V Three-phase wye	20	✓	✓	✓	✓	700	700	700	1200	100kA	150
20PSP120YC12/*A	208Y120V Three-phase wye No neutral	20	✗	✓	✗	✓	-	700	-	1200	100kA	150
20PSP127Y12/*A	220Y127V Three-phase wye	20	✓	✓	✓	✓	700	700	700	1200	100kA	150
20PSP127YC12/*A	220Y127V Three-phase wye No neutral	20	✗	✓	✗	✓	-	700	-	1200	100kA	150
20PSP240Y12/*A	415Y240V Three-phase wye	20	✓	✓	✓	✓	1200	1200	1200	2000	100kA	320
20PSP240YC12/*A	415Y240V Three-phase wye No neutral	20	✗	✓	✗	✓	-	1200	-	2000	100kA	320
20PSP277Y12/*A	480Y277V Three-phase wye	20	✓	✓	✓	✓	1200	1200	1200	2000	100kA	320
20PSP277YC12/*A	480Y277V Three-phase wye No neutral	20	✗	✓	✗	✓	-	1200	-	2000	100kA	320



20PSP B (Surge capacity 100kA) - Technical Data:

Model No.	System Voltage (50/60Hz)	In (kA)	Protected Mode				Voltage Protection Ratings (VPR @6kV/ 3kA,V)				Surge Capacity per phase	MCOV (Vac)
			L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L		
20PSP347Y12/*A	600Y347V Three-phase wye	20	✓	✓	✓	✓	1500	1500	1500	2500	100kA	420
20PSP347YC12/*A	600Y347V Three-phase wye No neutral	20	✗	✓	✗	✓	-	1500	-	2500	100kA	420
20PSP120H12/*A	120/240V High-leg delta	20	✓	✓	✓	✓	700-1200HL	700-1200HL	700	1200-2000HL	100kA	150/320(HL)
20PSP120HC12/*A	120/240V High-leg delta No neutral	20	✗	✓	✗	✓	-	700-1200HL	-	1200-2000HL	100kA	150/320(HL)
20PSP240H12/*A	240/480V High leg delta	20	✓	✓	✓	✓	1200-1800HL	1200-1800HL	1200	2000-3000HL	100kA	320/550(HL)
20PSP240HC12/*A	240/480V High leg delta No Neutral	20	✗	✓	✗	✓	-	1200-1800HL	-	2000-3000HL	100kA	320/550(HL)
20PSP240D12/*A	240V Three-phase delta	20	✗	✓	✗	✓	-	1200	-	1200	100kA	320
20PSP480D12/*A	480V Three-phase delta	20	✗	✓	✗	✓	-	1800	-	2000	100kA	550
20PSP120S12/*A	120V Single-phase	20	✓	✓	✓	✗	700	700	700	-	100kA	150
20PSP127S12/*A	127V Single-phase	20	✓	✓	✓	✗	700	700	700	-	100kA	150
20PSP240S12/*A	240V Single-phase	20	✓	✓	✓	✗	1200	1200	1200	-	100kA	320
20PSP277S12/*A	277V Single-phase	20	✓	✓	✓	✗	1200	1200	1200	-	100kA	320
20PSP347S12/*A	347V Single-phase	20	✓	✓	✓	✗	1500	1500	1500	-	100kA	420



20PSP B (Surge capacity 100kA) - Basic Circuit Diagram

Un/ Power System (50/60 HZ)	Basic Surge Protection Circuit Diagram	
	Power System with Neutral Line	Power System without Neutral Line
120/240VAC split phase 240/480VAC split phase ...	<p>20PSP...SP12...(3W+G)</p>	<p>20PSP...SPC12...(2W+G)</p>
120VAC single phase 127VAC single phase 220VAC single phase 230VAC single phase 240VAC single phase 277VAC single phase 347VAC single phase ...	<p>20PSP...S12...(2W+G)</p>	
120/208VAC WYE 127/220VAC WYE 220/380VAC WYE 230/400VAC WYE 240/415VAC WYE 277/480VAC WYE 347/600VAC WYE ...	<p>20PSP...Y12...(4W+G)</p>	<p>20PSP...YC12...(3W+G)</p>
240VAC Delta 480VAC Delta ...		<p>20PSP...D12...(3W+G)</p>
120/240VAC High-leg delta 240/480VAC High-leg delta ...	<p>20PSP...H12...(4W+G, L2 is High-leg)</p>	<p>20PSP...HC12...(3W+G, L2 is High-leg)</p>



Panel SPDs | 50-100kA | Multi-phase **20PSP B**

20PSP B (Surge capacity 50kA) - Technical Data:

Model No.	System Voltage (50/60Hz)	In (kA)	Protected Mode				Voltage Protection Ratings (VPR @6kV/ 3kA,V)				Surge Capacity per phase	MCOV (Vac)
			L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L		
20PSP120SPNN11/*A	120/240V Split-phase	20	✓	✗	✗	✓	700	-	-	1200	50kA	150/300
20PSP120SPG11/*A		20	✗	✓	✓	✓	-	700	700	1200	50kA	150/300
20PSP120SPN11/*A		20	✓	✗	✓	✓	700	-	700	1200	50kA	150/300
20PSP240SPNN11/*A	240/480V Split-phase	20	✓	✗	✗	✓	1200	-	-	2000	50kA	320/640
20PSP240SPG11/*A		20	✗	✓	✓	✓	-	1200	1200	2000	50kA	320/640
20PSP240SPN11/*A		20	✓	✗	✓	✓	1200	-	1200	2000	50kA	320/640
20PSP127YG11/*A	220Y127V Three-phase wye	20	✗	✓	✓	✓	-	700	700	1200	50kA	150
20PSP127YN11/*A		20	✓	✗	✓	✓	700	-	700	1200	50kA	150
20PSP127YCG11/*A		20	✗	✓	✗	✓	-	700	-	1200	50kA	150
20PSP127YNN11/*A		20	✓	✗	✗	✓	700	-	-	1200	50kA	150
20PSP277YG11/*A	480Y/277V Three-phase wye	20	✗	✓	✓	✓	-	1200	1200	2000	50kA	320
20PSP277YN11/*A		20	✓	✗	✓	✓	1200	-	1200	2000	50kA	320
20PSP277YCG11/*A		20	✗	✓	✗	✓	-	1200	-	2000	50kA	320
20PSP277YNN11/*A		20	✓	✗	✗	✓	1200	-	-	2000	50kA	320
20PSP347YG11/*A	600Y347V Three-phase wye	20	✗	✓	✓	✓	-	1500	1500	2500	50kA	420
20PSP347YN11/*A		20	✓	✗	✓	✓	1500	-	1500	2500	50kA	420
20PSP347YCG11/*A		20	✗	✓	✗	✓	-	1500	-	2500	50kA	420
20PSP347YNN11/*A		20	✓	✗	✗	✓	1500	-	-	2500	50kA	420
20PSP120HG11/*A	120/240V High leg delta	20	✗	✓	✓	✓	-	700-1200HL	700	1200-2000HL	50kA	150/320(HL)
20PSP120HN11/*A		20	✓	✗	✓	✓	700-1200HL	-	700	1200-2000HL	50kA	150/320(HL)
20PSP240HG11/*A	240/480V High leg delta	20	✗	✓	✓	✓	-	1200-1800HL	1200	2000-3000HL	50kA	320/550(HL)
20PSP240HN11/*A		20	✓	✗	✓	✓	1200-1800HL	1200-1800HL	1200	2000-3000HL	50kA	320/550(HL)
20PSP240DG11/*A	240V Three-phase delta	20	✗	✓	✗	✓	-	1200	-	2000	50kA	320
20PSP480DG11/*A	480V Three-phase delta	20	✗	✓	✗	✓	-	1800	-	4000	50kA	550
20PSP127SG11/*A	127V Single-phase	20	✗	✓	✓	✗	-	700	700	-	50kA	150
20PSP127SN11/*A		20	✓	✗	✓	✗	700	-	700	-	50kA	150
20PSP277SG11/*A	277V Single-phase	20	✗	✓	✓	✗	-	1200	1200	-	50kA	320
20PSP277SN11/*A		20	✓	✗	✓	✗	1200	-	1200	-	50kA	320
20PSP347SG11/*A	347V Single-phase	20	✗	✓	✓	✗	-	1500	1500	-	50kA	420
20PSP347SN11/*A		20	✓	✗	✓	✗	1500	-	1500	-	50kA	420



20PSP B (Surge capacity 50kA) - Basic Circuit Diagram

Un/ Power system (50/60 HZ)	Basic Surge Protection Circuit Diagram			
120/240 VAC split phase 240/480 VAC split phase ...	<p>20PSP...SPN11... (3W+G)</p>	<p>20PSP...SPG11... (3W+G)</p>	<p>20PSP...SPNN11... (3W)</p>	<p>20PSP...SPOG11... (2W+G)</p>
127 VAC single phase 230 VAC single phase 277 VAC single phase 347 VAC single phase ...	<p>20PSP...SN11... (2W+G)</p>	<p>20PSP...SG11... (2W+G)</p>	<p>20PSP...YNN11... (4W)</p>	<p>20PSP...YCG11... (3W+G)</p>
127/220 VAC WYE 230/400 VAC WYE 277/480 VAC WYE 347/600 VAC WYE ...	<p>20PSP...YN11... (4W+G)</p>	<p>20PSP...YG11... (4W+G)</p>	<p>20PSP...DGN11... (3W+G)</p>	
240 VAC Delta 480 VAC Delta ...	<p>20PSP...HN11... (4W+G, L2 is High leg)</p>	<p>20PSP...HG11... (4W+G, L2 is High leg)</p>	<p>20PSP...HN11... (4W+G, L2 is High leg)</p>	<p>20PSP...HN11... (4W+G, L2 is High leg)</p>



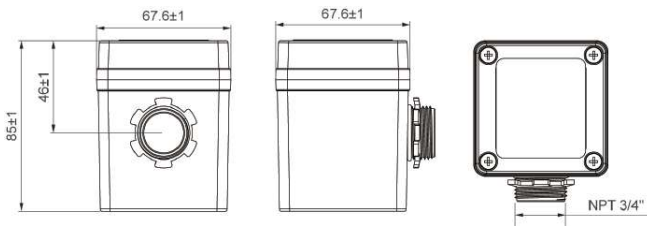
Panel SPDs | 50kA | Multi-phase **PSP F**

PSP F series panel SPDs are extra compact UL Type 1 SPD with nominal discharge current up to 20kA, designed to protect single phase and multi-phase electrical distribution systems against the harmful effects of transient surges. They are constructed with Prosurge's 20PTMOV which has a significant advantage in abnormal over-voltage & high fault current safety and thus ensure industry's highest level of safety and performance. They are tested and listed as Type 1 SPD, ANSI/UL1449 5th, CSA C22.2.



PSP Category	PSP F
Certification	ANSI/UL1449 5th, CSA C22.2, Type1
Connection Type	Parallel Connected
Nominal Voltage (AC)	120-690V
Surge Capacity	50kA per Phase
Nominal Discharge Current In	20kA
SCCR	200kArms
Power Status Indication	Normal= LED ON
Working Status Indication	Fail= LED OFF
Power Connecting	10AWG, (L1=black; L2=red; L3=blue; N=white; PE=green)
Working Environments	Temperature -40°C+80°C, Humidity relative 5-95% (25°C) , Altitudes≤3km
Dimensions, W x D x H	68x68x85mm
Enclosure	Waterproof plastic enclosure
Threaded NPT	3/4"NPT
Net Weight (Typical Value)	0,4 kg

- Dimension drawing



Typical Application:

In low & medium exposure locations

- Commercial
- Industrial
- Home solution
- Communications
- Renewable energy

PSP F (In :20kA) - Technical Data:

Model No.	System Voltage (50/60Hz)	In (kA)	Protected Mode				Voltage Protection Ratings (VPR @6kV/ 3kA,V)				Surge Capacity per phase	MCOV (Vac)
			L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L		
PSPF120SPNN11/T1	120/240V Split-phase	20	✓	✗	✗	✓	500	-	-	900	50kA	150/300
PSPF120SPCG11/T1		20	✗	✓	✗	✓	-	500	-	900	50kA	150/300
PSPF120SPG11/T1		20	✗	✓	✓	✓	-	500	500	900	50kA	150/300
PSPF120SPN11/T1		20	✓	✗	✓	✓	500	-	500	900	50kA	150/300
PSPF240SPNN11/T1	240/480V Split-phase	20	✓	✗	✗	✓	900	-	-	1800	50kA	320/640
PSPF240SPCG11/T1		20	✗	✓	✗	✓	-	900	-	1800	50kA	320/640
PSPF240SPG11/T1		20	✗	✓	✓	✓	-	900	900	1800	50kA	320/640
PSPF240SPN11/T1		20	✓	✗	✓	✓	900	-	900	1800	50kA	320/640
PSPF120YG11/T1	208Y120V Three-phase wye	20	✗	✓	✓	✓	-	500	500	900	50kA	150
PSPF120YN11/T1		20	✓	✗	✓	✓	500	-	500	900	50kA	150
PSPF120YCG11/T1		20	✗	✓	✗	✓	-	500	-	900	50kA	150
PSPF120YNN11/T1		20	✓	✗	✗	✓	500	-	-	900	50kA	150
PSPF127YG11/T1	220Y127V Three-phase wye	20	✗	✓	✓	✓	-	500	500	900	50kA	150
PSPF127YN11/T1		20	✓	✗	✓	✓	500	-	500	900	50kA	150
PSPF127YCG11/T1		20	✗	✓	✗	✓	-	500	-	900	50kA	150
PSPF127YNN11/T1		20	✓	✗	✗	✓	500	-	-	900	50kA	150
PSPF240YG11/T1	415Y/240V Three-phase wye	20	✗	✓	✓	✓	-	900	900	1800	50kA	320
PSPF240YN11/T1		20	✓	✗	✓	✓	900	-	900	1800	50kA	320
PSPF240YCG11/T1		20	✗	✓	✗	✓	-	900	-	1800	50kA	320
PSPF240YNN11/T1		20	✓	✗	✗	✓	900	-	-	1800	50kA	320

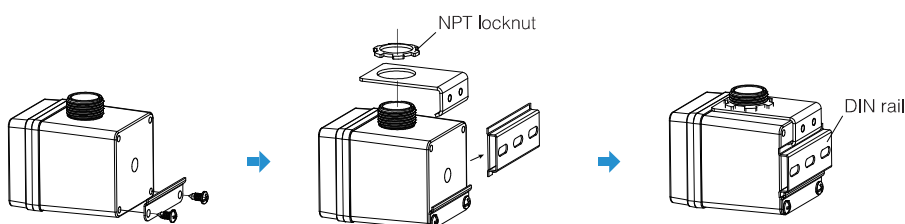


PSP F (In :20kA) - Technical Data:

Model No.	System Voltage (50/60Hz)	In (kA)	Protected Mode				Voltage Protection Ratings (VPR @6kV/ 3kA,V)				Surge Capacity per phase	MCOV (Vac)
			L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L		
PSPF277YG11/T1	480Y/277V Three-phase wye	20	x	✓	✓	✓	-	900	900	1800	50kA	320
PSPF277YN11/T1		20	✓	x	✓	✓	900	-	900	1800	50kA	320
PSPF277YCG11/T1		20	x	✓	x	✓	-	900	-	1800	50kA	320
PSPF277YNN11/T1		20	✓	x	x	✓	900	-	-	1800	50kA	320
PSPF347YG11/T1	600Y347V Three-phase wye	20	x	✓	✓	✓	-	1200	1200	2500	50kA	420
PSPF347YN11/T1		20	✓	x	✓	✓	1200	-	1200	2500	50kA	420
PSPF347YCG11/T1		20	x	✓	x	✓	-	1200	-	2500	50kA	420
PSPF347YNN11/T1		20	✓	x	x	✓	1200	-	-	2500	50kA	420
PSPF400YG11/T1	690Y400V Three-phase wye	20	x	✓	✓	✓	-	1800	1800	3000	50kA	550
PSPF400YN11/T1		20	✓	x	✓	✓	1800	-	1800	3000	50kA	550
PSPF400YCG11/T1		20	x	✓	x	✓	-	1800	-	3000	50kA	550
PSPF400YNN11/T1		20	✓	x	x	✓	1800	-	-	3000	50kA	550
PSPF120HG11/T1	120/240V High leg delta	20	x	✓	✓	✓	-	900	900	1800	50kA	320
PSPF120HN11/T1		20	✓	x	✓	✓	900	-	900	1800	50kA	320
PSPF240HG11/T1	240/480V High leg delta	20	x	✓	✓	✓	-	1800	1800	3000	50kA	550
PSPF240HN11/T1		20	✓	x	✓	✓	1800	-	1800	3000	50kA	550
PSPF240DG11/T1	240V Three-phase delta	20	x	✓	x	✓	-	900	-	900	50kA	300
PSPF480DG11/T1	480V Three-phase delta	20	x	✓	x	✓	-	1800	-	1800	50kA	640
PSPF600DG11/T1	600V Three-phase delta	20	x	✓	x	✓	-	2500	-	2500	50kA	840
PSPF690DG11/T1	690V Three-phase delta	20	x	✓	x	✓	-	3000	-	3000	50kA	1100
PSPF120SG11/T1	120V Single-phase	20	x	✓	✓	x	-	500	500	-	50kA	150
PSPF120SN11/T1		20	✓	x	✓	x	500	-	500	-	50kA	150
PSPF127SG11/T1	127V Single-phase	20	x	✓	✓	x	-	500	500	-	50kA	150
PSPF127SN11/T1		20	✓	x	✓	x	500	-	500	-	50kA	150
PSPF240SG11/T1	240V Single-phase	20	x	✓	✓	x	-	900	900	-	50kA	320
PSPF240SN11/T1		20	✓	x	✓	x	900	-	900	-	50kA	320
PSPF277SG11/T1	277V Single-phase	20	x	✓	✓	x	-	900	900	-	50kA	320
PSPF277SN11/T1		20	✓	x	✓	x	900	-	900	-	50kA	320
PSPF347SG11/T1	347V Single-phase	20	x	✓	✓	x	-	1200	1200	-	50kA	420
PSPF347SN11/T1		20	✓	x	✓	x	1200	-	1200	-	50kA	420
PSPF400SG11/T1	400V Single-phase	20	x	✓	✓	x	-	1800	1800	-	50kA	550
PSPF400SN11/T1		20	✓	x	✓	x	1800	-	1800	-	50kA	550

Notes: The PSPF supports multiple installation methods, and Prosurge provides all necessary mounting accessories.

- Examples of DIN-rail mounting:

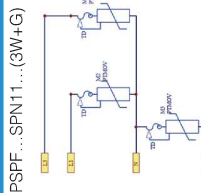
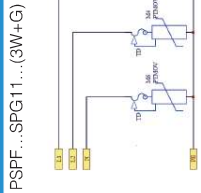
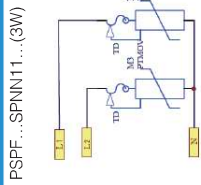
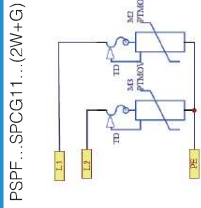




PSP F (In :20kA) - Basic Circuit Diagram

Basic Surge Protection Circuit Diagram

Un/ Power system
(50/60 HZ)



120/240 VAC split phase
240/480 VAC split phase
...

PSPF...SPCG11...(2W+G)

PSPF...SPN11...(3W)

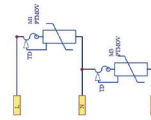
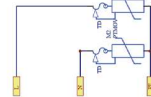
PSPF...SPG11...(3W+G)

PSPF...SPN11...(3W+G)

PSPF...SG11...(2W+G)

PSPF...SN11...(2W+G)

120 VAC single phase
127 VAC single phase
230 VAC single phase
240 VAC single phase
277 VAC single phase
347 VAC single phase
400 VAC single phase
...



PSPF...SG11...(2W+G)

PSPF...SN11...(2W+G)

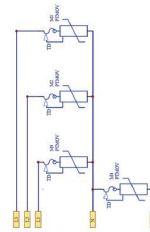
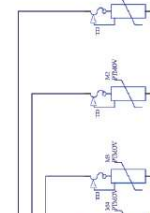
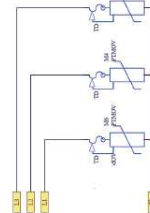
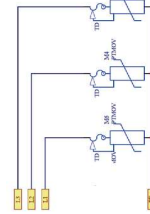
PSPF...YCG11...(3W+G)

PSPF...YNN11...(4W)

PSPF...YG11...(4W+G)

PSPF...YN11...(4W+G)

120/208 VAC WYE
127/220 VAC WYE
230/400 VAC WYE
240/415VAC WYE
277/480 VAC WYE
347/600 VAC WYE
400/690 VAC WYE
...



PSPF...YCG11...(3W+G)

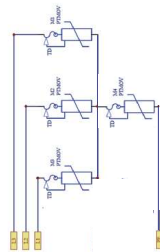
PSPF...YNN11...(4W)

PSPF...YG11...(4W+G)

PSPF...YN11...(4W+G)

PSPF...DG11...(3W+G)

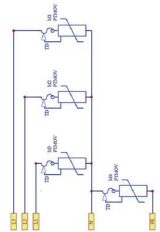
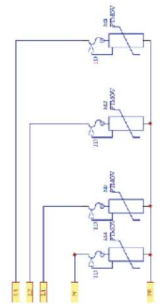
240 VAC Delta
480 VAC Delta
600 VAC Delta
690 VAC Delta
...



PSPF...HG11...(4W+G)

PSPF...HN11...(4W+G)

120/240 VAC Hi-leg delta
240/480 VAC Hi-leg delta
...



PSPF...HG11...(4W+G)

PSPF...HN11...(4W+G)



Prosurge PSP C series panel SPDs are defined as high performance surge protection solution for most commercial and industrial environments with critical operations. They include Type 1 and Type 2 SPDs that protect against the harmful effects of transient surges.

Typical Application:

In medium & high exposure locations

- Commercial
- Industrial
- Communications
- Renewable energy
- Critical power (hospitals, data centers, etc.)

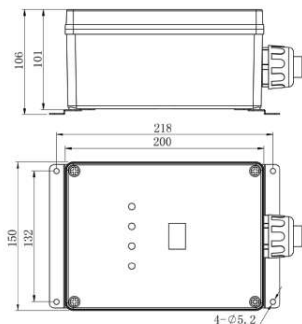


PSP Category	PSP C1	PSP C2	HPSP
Certification	ANSI / UL 1449 5th, UL1283, CSA C22.2, Type 1, Type 2		
Connection Type	Parallel Connected		
Nominal Voltage (AC)	120-600V	120-600V	120-480V
Surge Capacity	100~300kA	100~300kA	400~600kA
SCCR	200kArms		
UL1283 EMI / RFI filter	Sine wave tracking, up to -45dB from 10kHz to 100MHz (Type 2 only)		
Lightning Counter Current	≥ 200A (with Reset button)		
Failure Pre-Test	Press 2S (test button)		
Power Status Indication	Normal = Green LED ON		
Working Status Indication	Normal = Green LED ON; Fail=Red LED ON		
Power Connecting	10 AWG (L1=black; L2=red; L3=blue; N=white; PE=green)		
Signal Cable (Remote Alarm)	16 AWG (C=red; NC=blue; NO=brown)		
Working Environment	Temperature: -40°C~+75°C; Humidity relative 5~95% (25°C); Altitude: ≤3km		
Dimension, WxDxH	232x150x106 mm	286x200x120 mm	232x150x106 mm
Threaded NPT	3/4" NPT		
Enclosure	Waterproof plastic enclosure	Waterproof metal enclosure	Waterproof plastic enclosure
Net Weight (Typical Value)	1.59kg	4.3Kg	1.8Kg

C1/HPSP: Waterproof plastic enclosure



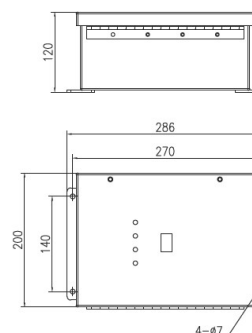
- Dimension drawing



C2: Waterproof metal enclosure



- Dimension drawing





Panel SPDs | 100-600kA | Multi-phase **PSP C**



PSP C - Technical Data:

Note: % means 2 to 6 (Surge capacity 100kA~300kA per phase)

Model No.	System Voltage (50/60Hz)	In (kA)	Protected Mode				Voltage Protection Ratings (VPR @6kV/ 3kA,V)				Surge Capacity per phase	MCOV (Vac)
			L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L		
PSP120SP%2/*CTA	120/240V Split-phase	20	✓	✓	✓	✓	600	700	700	1200	100~300kA	150/300
PSP120SPC%2/*CTA	120/240V Split-phase No neutral	20	✗	✓	✗	✓	-	700	-	1200	100~300kA	150/300
PSP240SP%2/*CTA	240/480V Split-phase	20	✓	✓	✓	✓	1200	1200	1200	2000	100~300kA	320/640
PSP240SPC%2/*CTA	240/480V Split-phase No neutral	20	✗	✓	✗	✓	-	1200	-	2000	100~300kA	320/640
PSP120Y%2/*CTA	208Y120V Three-phase wye	20	✓	✓	✓	✓	600	700	700	1200	100~300kA	150
PSP120YC%2/*CTA	208Y120V Three-phase wye No neutral	20	✗	✓	✗	✓	-	700	-	1200	100~300kA	150
PSP127Y%2/*CTA	220Y127V Three-phase wye	20	✓	✓	✓	✓	600	700	700	1200	100~300kA	150
PSP127YC%2/*CTA	220Y127V Three-phase wye No neutral	20	✗	✓	✗	✓	-	700	-	1200	100~300kA	150
PSP240Y%2/*CTA	415Y240V Three-phase wye	20	✓	✓	✓	✓	1200	1200	1200	2000	100~300kA	320
PSP240YC%2/*CTA	415Y240V Three-phase wye No neutral	20	✗	✓	✗	✓	-	1200	-	2000	100~300kA	320
PSP277Y%2/*CTA	480Y277V Three-phase wye	20	✓	✓	✓	✓	1200	1200	1200	2000	100~300kA	320
PSP277YC%2/*CTA	480Y277V Three-phase wye No neutral	20	✗	✓	✗	✓	-	1200	-	2000	100~300kA	320
PSP347Y%2/*CTA	600Y347V Three-phase wye	20	✓	✓	✓	✓	1500	1500	1500	2500	100~300kA	420
PSP347YC%2/*CTA	600Y347V Three-phase wye No neutral	20	✗	✓	✗	✓	-	1500	-	2500	100~300kA	420
PSP120H%2/*CTA	120/240V High-leg delta	20	✓	✓	✓	✓	600-1200HL	700-1200HL	700	1200-2000HL	100~300kA	150/320(HL)
PSP120HC%2/*CTA	120/240V High-leg delta No neutral	20	✗	✓	✗	✓	-	700-1200HL	-	1200-2000HL	100~300kA	150/320(HL)
PSP240H%2/*CTA	240/480V High-leg delta	20	✓	✓	✓	✓	1200-1800HL	1200-1800HL	1200	2000-3000HL	100~300kA	320/550(HL)
PSP240HC%2/*CTA	240/480V High-leg delta No neutral	20	✗	✓	✗	✓	-	1200-1800HL	-	2000-3000HL	100~300kA	320/550(HL)
PSP240D%2/*CTA	240V Three-phase delta	20	✗	✓	✗	✓	-	1200	-	1200	100~300kA	320
PSP480D%2/*CTA	480V Three-phase delta	20	✗	✓	✗	✓	-	1800	-	2000	100~300kA	550
PSP600D%2/*CTA	600V Three-phase delta	20	✗	✓	✗	✓	-	2000	-	2500	100~300kA	690
PSP120S%2/*CTA	120V Single-phase	20	✓	✓	✓	✗	600	700	700	-	100~300kA	150
PSP127S%2/*CTA	127V Single-phase	20	✓	✓	✓	✗	600	700	700	-	100~300kA	150
PSP240S%2/*CTA	240V Single-phase	20	✓	✓	✓	✗	1200	1200	1200	-	100~300kA	320
PSP277S%2/*CTA	277V Single-phase	20	✓	✓	✓	✗	1200	1200	1200	-	100~300kA	320
PSP347S%2/*CTA	347V Single-phase	20	✓	✓	✓	✗	1500	1500	1500	-	100~300kA	420



HPSP - Technical Data:

Note: % means 4 to 6 (surge capacity 400kA~600kA per phase)

Model No.	System Voltage (50/60Hz)	In (kA)	Protected Mode				Voltage Protection Ratings (VPR @6kV/ 3kA,V)				Surge Capacity per phase	MCOV (Vac)
			L-N	L-G	N-G	L-L	L-N	L-G	N-G	L-L		
HPSP120SP%2/*CTA	120/240V Split-phase	20	✓	✓	✓	✓	600	700	700	1200	400~600kA	150/300
HPSP120SPC%2/*CTA	120/240V Split-phase No neutral	20	✗	✓	✗	✓	-	700	-	1200	400~600kA	150/300
HPSP240SP%2/*CTA	240/480V Split-phase	20	✓	✓	✓	✓	1200	1200	1200	2000	400~600kA	320/640
HPSP240SPC%2/*CTA	240/480V Split-phase No neutral	20	✗	✓	✗	✓	-	1200	-	2000	400~600kA	320/640
HPSP127Y%2/*CTA	220Y127V Three-phase wye	20	✓	✓	✓	✓	600	700	700	1200	400~600kA	150
HPSP127YC%2/*CTA	220Y127V Three-phase wye No neutral	20	✗	✓	✗	✓	-	700	-	1200	400~600kA	150
HPSP240Y%2/*CTA	415Y240V Three-phase wye	20	✓	✓	✓	✓	1200	1200	1200	2000	400~600kA	320
HPSP240YC%2/*CTA	415Y240V Three-phase wye No neutral	20	✗	✓	✗	✓	-	1200	-	2000	400~600kA	320
HPSP277Y%2/*CTA	480Y277V Three-phase wye	20	✓	✓	✓	✓	1200	1200	1200	2000	400~600kA	320
HPSP277YC%2/*CTA	480Y277V Three-phase wye No neutral	20	✗	✓	✗	✓	-	1200	-	2000	400~600kA	320
HPSP347Y%2/*CTA	600Y347V Three-phase wye	20	✓	✓	✓	✓	1500	1500	1500	2500	400~600kA	420
HPSP347YC%2/*CTA	600Y347V Three-phase wye No neutral	20	✗	✓	✗	✓	-	1500	-	2500	400~600kA	420
HPSP120H%2/*CTA	120/240V High-leg delta	20	✓	✓	✓	✓	600-1200HL	700-1200HL	700	1200-2000HL	400~600kA	150/320(HL)
HPSP120HC%2/*CTA	120/240V High-leg delta No neutral	20	✗	✓	✗	✓	-	700-1200HL	-	1200-2000HL	400~600kA	150/320(HL)
HPSP240H%2/*CTA	240/480V High-leg delta	20	✓	✓	✓	✓	1200-1800HL	1200-1800HL	1200	2000-3000HL	400~600kA	320/550(HL)
HPSP240HC%2/*CTA	240/480V High-leg delta No neutral	20	✗	✓	✗	✓	-	1200-1800HL	-	2000-3000HL	400~600kA	320/550(HL)
HPSP240D%2/*CTA	240V Three-phase delta	20	✗	✓	✗	✓	-	1200	-	1200	400~600kA	320
HPSP480D%2/*CTA	480V Three-phase delta	20	✗	✓	✗	✓	-	1800	-	2000	400~600kA	550
HPSP127S%2/*CTA	127V Single-phase	20	✓	✓	✓	✗	600	700	700	-	400~600kA	150
HPSP277S%2/*CTA	277V Single-phase	20	✓	✓	✓	✗	1200	1200	1200	-	400~600kA	320
HPSP347S%2/*CTA	347V Single-phase	20	✓	✓	✓	✗	1500	1500	1500	-	400~600kA	420



PSP C, HPSP - Basic Circuit Diagram

Un/ Power System (50/60 HZ)	Basic Surge Protection Circuit Diagram	
	Power System with Neutral Line	Power System without Neutral Line
120/240VAC split phase 240/480VAC split phase ...	(H)PSP...SP%2...(3W+G) 	(H)PSP...SPC%2...(2W+G)
120VAC single phase 127VAC single phase 220VAC single phase 230VAC single phase 240VAC single phase 277VAC single phase 347VAC single phase ...	(H)PSP...S%2...(2W+G) 	
120/208VAC WYE 127/220VAC WYE 220/380VAC WYE 230/400VAC WYE 240/415VAC WYE 277/480VAC WYE 347/600VAC WYE ...	(H)PSP...Y%2...(4W+G) 	(H)PSP...YC%2...(3W+G)
240VAC Delta 480VAC Delta 600VAC Delta ...		(H)PSP...D%2...(3W+G)
120/240VAC High-leg delta 240/480VAC High-leg delta ...	(H)PSP...H%2...(4W+G, L2 is High-leg) 	(H)PSP...HC%2...(3W+G, L2 is High-leg)