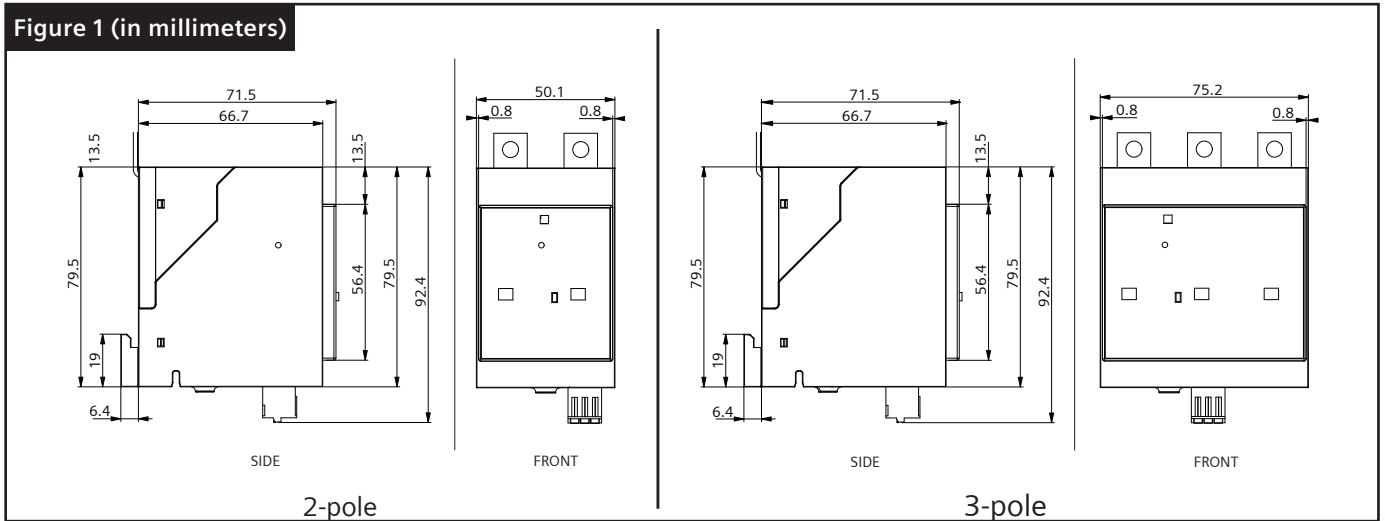


These instructions are intended as a guide for installing the Siemens BSPD series of surge protective devices into any approved panelboard or panel that the BSPD is qualified for. It is the installer's responsibility to ensure the proper device is selected for the voltage system of the application.

Catalog no.	System voltage	SCCR (system rating)	Surge current rating	Poles	Volt. code	VPR rating L-N/L-G	Other specifications
BSPD2A100	120/240V, 1Ø, 3W*	200kA	100kA	2	A	600V	<ul style="list-style-type: none"> UL Type Designation: SPD Type 1, also suitable for use in Type 2 applications Nominal Discharge Current (In): 20kA 2-pole and 3-pole bolt on configurations in BQD footprint Flashing Dual Color LED (Green/Red) Status Indicator Audible Alarm w/ Silence Switch/Button Form C Dry Contact, 240V AC, 1A Max, 48V DC 0.5A Max Pre-wired #14 AWG (solid copper stranded)
BSPD3B100	240/120V, 3Ø, 4W	200kA	100kA	3	B	600V	
BSPD3C100	208Y/120V, 3Ø, 4W	200kA	100kA	3	C	600V	
BSPD3D100	240V, 3Ø, 3W	200kA	100kA	3	D	800V	
BSPD3E100	480Y/277V, 3Ø, 4W	200kA	100kA	3	E	1000V	
BSPD3F100	480V, 3Ø, 3W	200kA	100kA	3	F	1800V	
BSPD3G100	600V, 3Ø, 3W	200kA	100kA	3	G	2000V	
BSPD3K100	380Y/220V, 3Ø, 4W	200kA	100kA	3	K	900V	
BSPD3L100	600Y/347V, 3Ø, 4W	200kA	100kA	3	L	1200V	
BSPD3S100	400Y/230V, 3Ø, 4W	200kA	100kA	3	S	900V	
BSPD3T100	415Y/240V, 3Ø, 4W	200kA	100kA	3	T	900V	

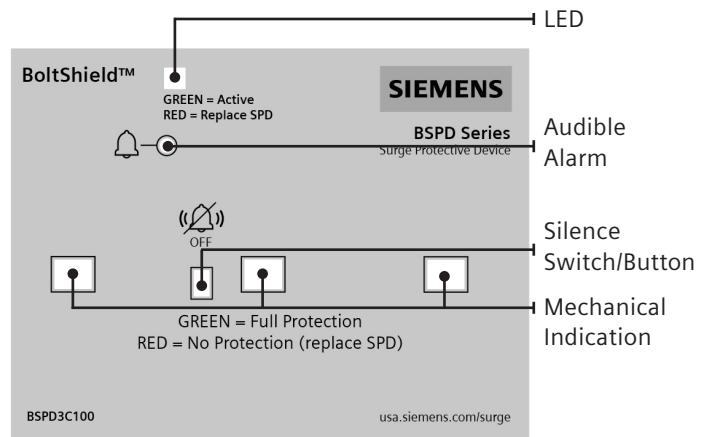
*Can also be used on 208Y/120V, 1Ø, 3W System

The Siemens BSPD surge protector will fit any location that will accept either a Siemens 2-pole or 3-pole BL/BQD type breaker, or (with the included adapter) any location an xGB or 3VA41 type breaker will fit. Note: Each SPD comes with an adapter. There are two surge protector types (see Figure 1): - 2 Pole for Single Phase systems, - 3 Pole for Three Phase systems. Kit # BSPDXGB1 is available in case the xGB/3VA41 adapter is lost or damaged. This kit contains 1 each of the 2-pole and 3-pole adapters.



Mechanical and electrical features:

An electronic alarm circuit is included on all product models. This circuit monitors the integrity of the SPD and alerts the user, using audible and visual means, in the event of failure. The circuit is directly powered from the power system to which the SPD is connected. A flashing green LED indicates that it is operational. Upon failure of any of the MOVs in the SPD, an intermittent audible chirp is emitted and the green LED will change to a flashing red LED. If the user presses the alarm silence switch/button, the audible chirp is silenced, but the flashing red LED will remain. This is to warn the user that the SPD has failed (and needs to be replaced) even though the alarm has been silenced. Pressing the alarm silence switch/button again will re-engage the audible chirp.





Danger

Hazardous Voltage.
Will cause death or serious injury.

Turn off and lock out all power supplying this device before working on this device.
Replace all covers before power supplying this device is turned on.

Peligro

Tensión peligrosa.
Puede causar la muerte o lesiones graves.

Desenergice totalmente antes de instalar o darle servicio.
Reemplace todas las barreras y cubiertas antes de energizar el interruptor.

Danger

Tension dangereuse.
Danger de mort ou risque de blessures graves.

Couper l'alimentation de l'appareil et barrer avant de travailler.
Remplacez tous les couverts avant que l'alimentation de pouvoir soit alimenté.

Installation Procedure:

1. This device is suitable for use on a circuit capable of delivering not more than 200kA rms symmetrical amperes.
2. Turn off and lockout the power to the panelboard in which the device is to be installed.
3. Remove the panelboard/load center cover/deadfront.
4. If installing onto the xGB/3VA41 barrier, install supplied mounting adapter (Figure 2).
5. Place SPD in position, aligning to bus as shown (Figure 3a and 3b).
6. Utilizing the screws provided with the panelboard, attach the SPD's line terminals to the panelboard bus. Torque the screws per panelboard specifications, or 5-7 lbs-in.
7. On a single phase or 3-phase Wye voltage system, connect the white pigtail wire from the SPD unit to the neutral bus bar, making the wire as straight and short as possible. Torque per panelboard markings, or 5-7 lbs-in.

Note: If the user is connecting the WYE SPD unit to the ground bus bar in order to change/increase the modes of protection or increase the surge current capacity, wrap the white wire with green electrical tape as per code.

8. On a Delta voltage system, connect the green pigtail wire from the SPD unit to the ground bus bar, making the wire as straight and short as possible. Torque per panelboard markings, or 5-7 lbs-in.
9. On a Hi-leg Delta system make sure that the middle contact of the SPD matches the B-phase (center bus).
10. The remote contacts (250VAC 1A; 48VDC 0.5A) are factory configured series/parallel with all modules interconnected to a single connector for ease of monitoring the status of the suppressor.
11. A typical application circuit for the remote contacts is shown in Figure 4, where a power source can be used to turn off a circuit or remote alarm in the event of suppressor failure (or turn-on a circuit/alarm).

12. Replace the panelboard cover/deadfront and restore panelboard power.

13. Verify that the green indicator light is flashing for all BSPDs installed.

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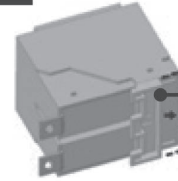
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Figure 2:



Required for mounting onto
xGB/3VA41 barrier

Replacement adapter # BSPDXGB1

Figure 3a:

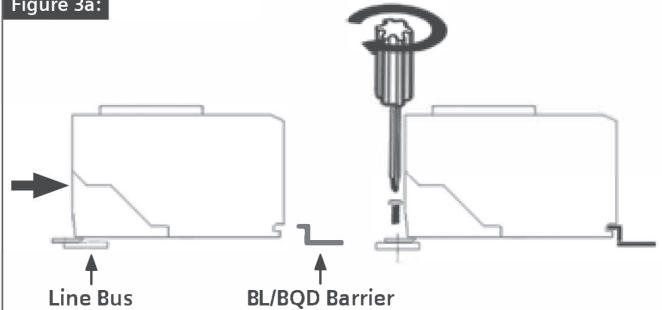


Figure 3b:

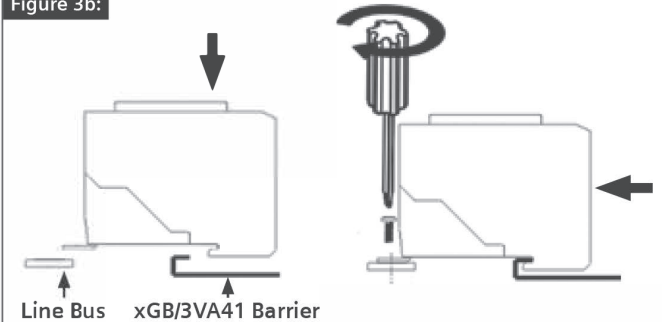
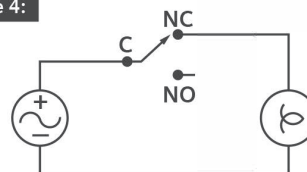


Figure 4:



Remote Monitoring Circuit



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