



BoltShield[™] Surge **Protective Devices**

QSPD series for loadcentres

www.siemens.ca/powerdistribution

Surge Protective Devices (SPDs) provide the best protection from both externally and internally generated surges when located as close to the building distribution system as possible. For cost and space reasons many buildings only include one SPD located at the main incoming loadcentre and do not cascade SPDs throughout the building as recommended by IEEE. The new Siemens QSPD series of SPDs are economical and easy to install in most panels throughout a building so that whole facility protection can be obtained.

Features

- UL 1449 SPD Type 1*
- Monolithic distribution grade MOV
- Thermally protected MOV
- 65kA surge current protection per phase
- 20kA I-nominal ratings
- 200kA SCCRs
- 10 year standard warranty
- Audible Alarm

Product specifications

General specifications			
Maximum surge current rating range	65kA per phase		
UL Type designation	SPD Type 1*		
UL 1449 I-nominal rating	20kA		
UL 1449 short circuit current rating	200kA		
Repetitive impulse	5,000 hits		
Response time	<1 ns		
Physical specifications			
Humidity range	0-95% non-condensing		
Operating frequency	0-415Hz		
Operating temperature	-25°C to +60°C		
Dimensions in inches (mm)	2 pole	3 (77.9) x 2 (50.4) x 2.6 (65.3)	
	3 pole	3 (77.9) x 3 (75.2) x 2.6 (65.3)	

2 pole

3 pole

Neutral/ground connection

Weight

Diagnostic monitoring specifications

Green/red visual mechanical flag failure indicators

Flashing dual colour led (green/red) status indicator

Audible alarm w/ silence switch/button

3 (77.9) x 3 (75.2) x 2.6 (65.3) 0.64 lbs (237 q) 0.71 lbs (335 g) #14 AWG (pre-wired)

Design specifications

Monolithic distribution grade MOV Integrated optimized thermal protection Fits in footprint of Siemens QP breaker Modes of protection (L-N or L-G, L-L)

UL 1449 performance data and ordering information									
System voltage	L-N (L-G)	ĿL	In	SCCR	мсоv	Catalog numbers	Siemens breaker form factor		
120/240V, 1Ø, 3W**	600V	1000	20kA	200kA	150V	QSPD2A065P*	2-P, Type Q Plug-In		
240/120V, 3Ø, 4W	600V/900V	1200	20kA	200kA	150V	QSPD3B065	3-P, Type Q Plug-In		
208Y/120V, 3Ø, 4W	600V	1000	20kA	200kA	150V	QSPD3C065	3-P, Type Q Plug-In		
240V, 3Ø, 3W	900V	1500	20kA	200kA	280V	QSPD3D065	3-P, Type Q Plug-In		

*QSPD2A065P comes in retail style blister pack packaging.

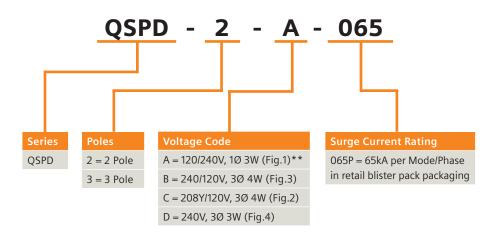
**Can also be used on 208Y/120V, 1Ø, 3W System.

Standards compliance and certifications

UL 1449 4th Edition, cUL, UL 96A compliant, ANSI/IEEE C62.41.1-2002, C62.41.2-2002, C62.45-2002, NEC Article 285

ISO 9001:2014 quality management system, ISO 17025:2007 laboratory certification (UL DAP Program), 100% quality tested prior to shipping

Catalog number logic



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

Benefits of installing multiple QSPDs

Adding multiple QSPDs in a single load center can increase the modes of protection and the surge capacity. See the Boltshield brochure for more details and review the example chart below:

Number of QSPDs	Connection	Modes of protection	Surge current capacity per mode	Surge current capacity per phase
1	Neutral	3	65kA	65kA
2	Neutral + Ground	6	65kA	130kA
2	Neutral	3	130kA	130kA
3	Neutral(2) + Ground(1)	6	130kA(L-N) + 65kA (L-G)	195kA
3	Ground	3	195kA	195kA
4	Neutral(2) + Ground(2)	6	130kA	260kA

Wiring configurations

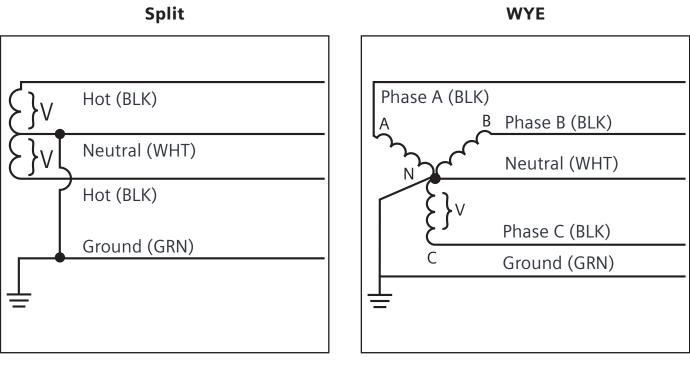
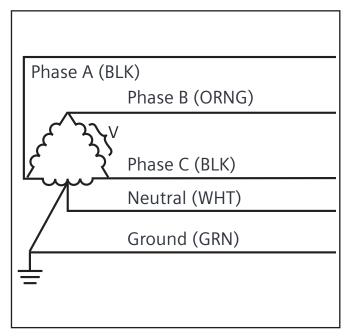


Figure 1 2 Hots, 1 Neu, 1 Grnd



Hi-Leg Delta (B High)





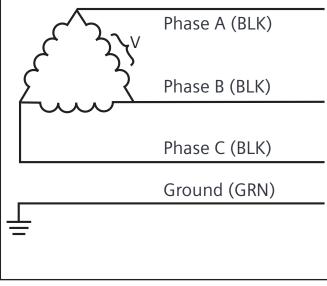
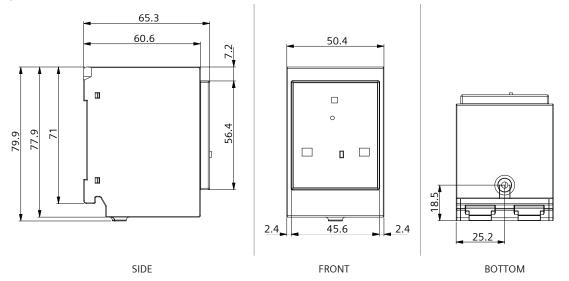


Figure 3 3 Hots (B High), 1 Neu, 1 Grnd

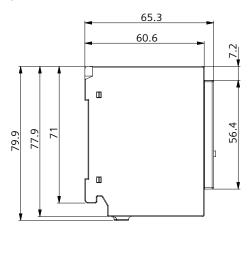


Product diagrams (in millimeters)

2-pole: QSPD2A065



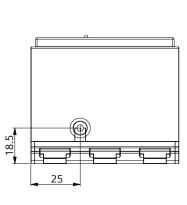
3-pole: QSPD3x065



SIDE

2.4 70.4 2.4 FRONT

75.2



BOTTOM

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