# SpikeShield® Power Quality Products



## 320kA and 160kA Service/Branch Panel Protection

The SpikeShield® service entrance product line includes a line of panels with replaceable modules. This series features improved performance through the use of a low impedance bus-bar design and easily replaceable bolt-down modules.

They incorporate a modular (replaceable surge protection modules) design and feature the latest industry approvals and safety ratings. Including UL1449 4th edition.

- Improved performance through the use of a low impedance bus-bar design
- Replaceable surge protection modules
- Surge counter included in all units
- NEMA 1 enclosure
- LED and audible alarm status indicator





HBL8P160DB

## Service/Branch Panel Protection 320,000 Peak Amp Capacity (Type 1 SPD)

Voltage	Configuration	Catalog Number	With Disconnect	Replacement Module
120/240V AC Single Phase	1Ph. 3-wire +G	HBL3P320B	HBL3P320DB	HBL160M120B
120/208V AC Wye*	3Ph. Wye 4-wire +G	HBL4P320B	HBL4P320DB	HBL160M120B
240V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>∆</sup>	HBL5P320B	HBL5P320DB	HBL160M240B
240/120V AC Delta split phase	3Ph. Delta 4-wire +G 'High Leg'	HBL6P320B	HBL6P320DB	HBL160M240BHL & HBL160M120B
277/480V AC Wye**	3Ph. Wye 4-wire +G	HBL8P320B	HBL8P320DB	HBL160M480B
480V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>∆</sup>	HBL9P320B	HBL9P320DB	HBL160M480DB
347/600V AC Wye	3Ph. Wye 4-wire +G	HBL10P320B	HBL10P320DB	HBL160M600B
600V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>∆</sup>	HBL11P320B	HBL11P320DB	HBL160M600B

## Service/Branch Panel Protection 160,000 Peak Amp Capacity (Type 1 SPD)

Voltage	Configuration	Catalog Number	With Disconnect	Replacement Module
120/240V AC Single Phase	1Ph. 3-wire +G	HBL3P160B	HBL3P160DB	HBL160M120B
120/208V AC Wye*	3Ph. Wye 4-wire +G	HBL4P160B	HBL4P160DB	HBL160M120B
240V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>∆</sup>	HBL5P160B	HBL5P160DB	HBL160M240B
240/120V AC Delta split phase	3Ph. Delta 4-wire +G 'High Leg'	HBL6P160B	HBL6P160DB	HBL160M240BHL & HBL160M120B
277/480V AC Wye**	3Ph. Wye 4-wire +G	HBL8P160B	HBL8P160DB	HBL160M480B
480V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>∆</sup>	HBL9P160B	HBL9P160DB	HBL160M480DB
347/600V AC Wye	3Ph. Wye 4-wire +G	HBL10P160B	HBL10P160DB	HBL160M347B
600V AC Delta	3Ph. Delta 3-wire Corner Gnd <sup>∆</sup>	HBL11P160B	HBL11P160DB	HBL160M600B

Note: Units come standard with Surge Counter.

#### **Electrical Specifications**

					Voltage Protection Rating (VPR)							
					L-N		L-G		N-G		L-L	
320kA Panel	160kA Panel	SCCR♦	In	MCOV †	320kA	160kA	320kA	160kA	320kA	160kA	320kA	160kA
HBL3P320B	HBL3P160B	200kA	20kA	320/160	900	700	900	700	800	600	1500	1000
HBL4P320B	HBL4P160B	200kA	20kA	320/160	900	700	900	700	800	600	1500	1000
HBL5P320B	HBL5P160B	200kA	20kA	320/160	N/A	N/A	1500	1200	N/A	N/A	2000	1500
HBL6P320B	HBL6P160B	200kA	20kA	320/160	1000/1200	900/1500	900/1200	900/1200	800	700	1500	1500
HBL8P320B	HBL8P160B	200kA	20kA	320/160	1500	1200	1500	1200	1200	1200	2000	2500
HBL9P320B	HBL9P160B	200kA	20kA	320/160	N/A	N/A	1800	1800	N/A	N/A	2500	2500
HBL10P320B	HBL10P160B	200kA	20kA	320/160	1500	1500	1500	1500	1500	1500	2500	2500
HBL11P320B	HBL11P160B	200kA	20kA	320/160	N/A	N/A	3000	2500	N/A	N/A	2500	2500

Note: Specification applies to both (B) and (DB) series.

## **Product Specifications**

Max. Surge Current per Phase: Max. Operating Temperature:

320kA and 160kA -20°F to 149°F (-4°C to 65°C)

Diagnostics Indicators:

Push to Test Diagnostics, Red and Green Status LED's. Dry Contacts, Audible Alarm and Surge Counter

Dimensions:

11.04"W x 22.44"H x 7.87"D (320kA) and 11.04"W x 20.32"H x 5.32"D (160kA)

Terminal Accommodation:

37 lbs. Max. (320kA) and 27 lbs. Max. (160kA) #10 AWG to #2 AWG

Operating Frequency: EMI/RFI:

50/60 Hz Up to -30dB NEMA 1

Housing Rating: Listing:

cULus UL1449 4th edition type 1 SPD, UL1283 5th edition, CSA C22.2 No. 269.2-13 1st edition, CSA 22.2,

No. 8-13, 5th edition.

Warranty:

<sup>\*120/208</sup> Wye also applies to 127/220 Wye.

<sup>\*\*277/480</sup> Wye also applies to 220/380 Wye, 230/400 Wye and 240/415 Wye.

<sup>♦</sup> SCCR - Short Circuit Current Rating. † MCOV - Maximum Continuous Operating Voltage. In - Nominal discharge current.