

Service Entrance Protection

The industry's most innovative service entrance protection system introduces new design methods and safety features. The Hubbell SpikeShield line of service entrance

surge protection utilizes the most unique and safest means of protecting your building from transients caused by lightning, utility grid switching, power line arcing or electrical accidents. The Hubbell service entrance protection system has a peak current rating of 320KA which exceeds the worst case requirements for high-exposure environments.

This new design by Hubbell achieves a new level of safety and performance not previously available. Improved performance is made possible through the use of a low-impedance design which incorporates bus-bar current carrying pathways and bolt-down modules. Increased safety for your equipment is designed into the product through individually fused MOVs, patented "Thermal Fusing" and fault-current fusing on the bolt-down modules.



SERVICE ENTRANCE PANEL PROTECTION

FEATURES

Thermal fusing

Compact design with bus-bar pathways

320KA peak amp capacity

Bolt-down modules

Fault-current fusing

LED & audible alarm status indicator

Sine wave tracking

BENEFITS

Thermal fuse remains functional to prevent the MOV from overheating when exposed to high current levels, a patented Hubbell exclusive.

Allows installation in areas with space restrictions.

Minimizes connecting lead length which reduces impedance ensuring improved clamping performance.

Protects equipment under the worst electrical conditions.

Assures positive connection and allows for easy replacement.

Prevents excessive panel damage caused by internal short circuits or component failure.

Provides visual and audible indication of panel status. Green for operational, red for module failure. Audible alarm for module failure with silencing.

Provides uniform clamping throughout the sine wave.

All panel products are UL (cUL) Listed to Standard 1449, 2nd Edition.



HBL4P320



HBL320M120



HBLSC

ORDERING INFORMATION

Service entrance surge protection with 320,000 peak amperage capacity.*

| VOLTAGE | PHASE CONFIGURATION | CATALOG # | REPLACEMENT MODULE |
|----------|---------------------|-----------|-------------------------|
| 120/240V | 1ø | HBL3P320 | HBL320M120 |
| 120/208V | 3ø Wye | HBL4P320 | HBL320M120 |
| 240V | 3ø Delta | HBL5P320 | HBL320M240 |
| 240/120V | 3ø Delta | HBL6P320 | HBL320M120 & HBL320M220 |
| 220/380V | 3ø Wye | HBL7P320 | HBL320M220 |
| 277/480V | 3ø Wye | HBL8P320 | HBL320M277 |
| 480V | 3ø Delta | HBL9P320 | HBL320M480 |
| 347/600V | 3ø Wye | HBL10P320 | HBL320M347 |

*Surge Counter available, Catalog #HBLSC

SPECIFICATIONS

| | HBL3P320 | HBL4P320 | HBL5P320 | HBL6P320 | HBL7P320 | HBL8P320 | HBL9P320 | HBL10P320 |
|---------------------------------|--|----------|-------------------|-----------|-----------------|----------|--------------------|-----------|
| Operating Specifications | | | | | | | | |
| Nominal line voltage: | 120/240 | 120/208 | 240 | 240/120 | 220/380 | 277/480 | 480 | 347/600 |
| Max. cont. operating voltage: | 150/300 | 150/300 | 300 | 300/150 | 275/390 | 320/640 | 640 | 390/780 |
| Operating frequency: | 50/60/400 Hz | | | | | | | |
| Max. surge current/phase: | 320KA | | | | | | | |
| Max. surge current per mode: | 160KA | | | | | | | |
| *L-L, L-N, L-G, N-G | | | | | | | | |
| Operating temperature: | -40° to +140° F (-20° to +80° C) | | | | | | | |
| Diagnostics: | Red & Green Status LEDs, Diagnostic Test Switches, Dry Contacts, Audible Alarm, Optional Surge Counter | | | | | | | |
| Performance | | | | | | | | |
| UL1449, 2nd edition | | | | | | | | |
| Clamping voltage: | 330 V | 330 V | 700 V | 600/330 V | 700 V | 800 V | 1500 V | 800 V |
| ANSI/IEEE C62.41: | | | | | | | | |
| Clamping voltage: | | | | | | | | |
| Category A3 200A (Ringwave) | 350 | 350 | 610 | 570/350 | 570 | 620 | 1280 | 660 |
| Category B3 500A (Ringwave) | 430 | 430 | 710 | 660/430 | 660 | 720 | 1440 | 810 |
| Category C1 3000A (Impulse) | 430 | 430 | 740 | 740/430 | 740 | 810 | 1600 | 1020 |
| EMI/RFI noise rejection: | Up to -50dB | | | | | | | |
| Thermal fusing: | Yes | | | | | | | |
| Fault current fusing: | 200K AIC Fusing Per Mode | | | | | | | |
| Mechanical Description | | | | | | | | |
| Dimensions: | 6.32"D x 16.45"W x 25.25"H | | Housing ratings: | | Product weight: | | Connection method: | |
| | | | NEMA 12, Metallic | | 30 lbs. | | #2/0 AWG Terminal | |
| Warranty | | | | | | | | |
| | Product: 10 Years | | | | | | | |

*L-L on all Delta configured products only

Branch Panel Protection

The SpikeShield line of branch panel surge protection offers a broad selection of products to meet the various requirements of industrial, commercial and institutional applications. No other surge suppression system can meet the flexibility, safety and performance standards set by Hubbell.

Hubbell offers surge suppression products which can handle peak amperage capacities of 65KA to 160KA. Led by the innovative PanelMaster™ series which incorporates a "Hot Swappable™" design, Hubbell offers a 160KA panel extension that eliminates long lead lengths while providing the most superior clamping levels.

The SpikeShield product line also includes an offering which is a modular series panel protector that features improved performance through the use of a low impedance bus-bar design and also comes with easily replaceable bolt-down modules.

The SpikeShield branch panel protection system includes the complete compact and economical 100KA series product offering. These products can be attached to branch panels, safety switches and load centers. The 100KA series is available either in a filtered and nonfiltered version, or in a NEMA 12 enclosure.

In addition, Hubbell also offers a 65KA series that can be attached as an appendage or flush mounted to a finished wall next to the panel. The versatility of the 65KA series products allows them to be used on branch panels, as well as main panel protection found in smaller commercial facilities.



PANELMASTER™ SERIES

The most innovative and flexible technology in the surge suppression industry today. The PanelMaster series is a 160KA rated product that mounts on top of your branch panel resulting in the best possible surge protection. The patented feed-through design of the PanelMaster series eliminates long lead lengths and achieves superior clamping levels.

In addition to this, the PanelMaster series by Hubbell also features the non-interrupting “Hot Swappable” design. This patented design allows the end user to replace modules without disconnecting power to the panel.

PanelMaster series’ flexibility allows it to be field-mounted to any manufacturer’s standard panel without consuming a breaker position or valuable wall space. The flexibility of the PanelMaster product line also eliminates delays on job sites caused by custom electronic grade TVSS panels. Only the PanelMaster series by Hubbell provides transient protection to the entire panel in a flexible, easy to install, field serviceable way.

| FEATURES | BENEFITS |
|---|--|
| Thermal fusing | Thermal fuse remains functional to prevent the MOV from overheating when exposed to high current levels, a patented Hubbell exclusive. |
| Feed-through connection | Eliminates connecting leads and provides superior clamping performance. |
| Hot Swappable design | Allows modules to be replaced without power interruption. Eliminates facility downtimes. |
| Fault-current fusing | Prevents excessive panel damage caused by internal short circuits or component failure. |
| LED and audible alarm indicator status | Provides audible and visual indication of status. Green LED for operational; red LED for module failure. |
| Sine wave tracking | Provides uniform clamping throughout the sine wave. |

All panel products are UL (cUL) Listed to Standard 1449, 2nd Edition.



HBL4PM160



HBL4PM160



HBL160PMM120



ORDERING INFORMATION

PanelMaster panel extension with Hot Swappable modules and 160,000 peak amperage capacity.*

| VOLTAGE | PHASE CONFIGURATION | CATALOG # | REPLACEMENT MODULE |
|----------|---------------------|-----------|--------------------|
| 120/240V | 1ø | HBL3PM160 | HBL160PMM120 |
| 120/208V | 3ø Wye | HBL4PM160 | HBL160PMM120 |
| 277/480V | 3ø Wye | HBL8PM160 | HBL160PMM277 |

*Surge Counter available, Catalog #HBLSC

SPECIFICATIONS

| | HBL3PM160 | HBL4PM160 | HBL8PM160 |
|---|----------------------------------|---|--------------------|
| Operating Specifications | | | |
| Nominal line voltage: | 120/240 | 120/208 | 277/480 |
| Max. cont. operating voltage: | 150/300 | 150/300 | 320/640 |
| Operating frequency: | 50/60/400 Hz | | |
| Max. surge current/phase: | 160KA | | |
| Max. surge current per mode: L-N, L-G, N-G | 80KA | | |
| Operating temperature: | -40° to +140° F (-20° to +80° C) | | |
| Diagnostics: | Red & Green Status LEDs, | Diagnostic Test Switches, Dry Contacts, Audible Alarm, Optional Surge Counter | |
| Performance | | | |
| UL1449, 2nd edition | | | |
| Clamping voltage: | 400 V | 400 V | 800 V |
| ANSI/IEEE C62.41: | | | |
| Clamping voltage: | | | |
| Category A3 200A (Ringwave) | 350 V | 350 V | 600 V |
| Category B3 500A (Ringwave) | 400 V | 400 V | 720 V |
| Category C1 3000A (Impulse) | 410 V | 410 V | 810 V |
| EMI/RFI noise rejection: | Up to -50dB | | |
| Thermal fusing: | Yes | | |
| Fault current fusing: | 200K AIC Fusing Per Mode | | |
| Mechanical Description | | | |
| Dimensions: | 5.75"D x 20.12"W x 17.5"H | Housing ratings: | NEMA 1, Metallic |
| Product weight: | | | 27 lbs. |
| Connection method: | | | #250 mcm Terminals |
| Warranty | | | |
| | Product: 10 Years | | |



MODULAR PANEL SURGE PROTECTION

The SpikeShield modular panel series offers a versatile and compact surge protection device designed to provide high-quality protection for industrial, commercial and institutional applications. This modular panel series by Hubbell provides a 160,000 peak amperage capacity and has easy to replace bolt-down modules.

This design incorporates bus-bar construction with bolt-down modules that improves performance and ease of maintenance. The device is able to deliver maximum protection because the advanced design reduces impedance. The product line also offers a high level of safety due to the use of fault-current fusing. This technology eliminates possible panel hazards.



HBL4P160



HBL4P160



HBL160M120

FEATURES

- Thermal fusing**
- Compact design with bus-bar pathways**
- 160KA peak amp capacity**
- Bolt-down modules**
- Fault-current fusing**
- LED & audible alarm status indicator**
- Sine wave tracking**

BENEFITS

- Thermal fuse remains functional to prevent the MOV from overheating when exposed to high current levels, a patented Hubbell exclusive.
- Allows installation in areas with space restrictions.
- Minimizes connecting lead length and reduces impedance which ensures improved clamping performance.
- Protects equipment under the worst electrical conditions.
- Assures positive connection and allows for easy replacement
- Prevents excessive panel damage caused by internal short circuits or component failure.
- Provides visual and audible indication of panel status. Green for operational, red for module failure.
- Provides uniform clamping throughout the sine wave.

All panel products are UL (cUL) Listed to Standard 1449, 2nd Edition.

ORDERING INFORMATION

Branch panel surge protection with 160,000 peak amperage capacity.*

| VOLTAGE | PHASE CONFIGURATION | CATALOG # | REPLACEMENT MODULE |
|----------|---------------------|-----------|--------------------|
| 120/240V | 1Ø | HBL3P160 | HBL160M120 |
| 120/208V | 3Ø Wye | HBL4P160 | HBL160M120 |
| 240V | 3Ø Delta | HBL5P160 | HBL160M240 |
| | | | HBL160M120 & |
| 240/120V | 3Ø Delta | HBL6P160 | HBL160M220 |
| 220/380V | 3Ø Wye | HBL7P160 | HBL160M220 |
| 277/480V | 3Ø Wye | HBL8P160 | HBL160M277 |
| 480V | 3Ø Delta | HBL9P160 | HBL160M480 |
| 347/600V | 3Ø Wye | HBL10P160 | HBL160M347 |

*Surge Counter available, Catalog #HBLSC

SPECIFICATIONS

| | HBL3P160 | HBL4P160 | HBL5P160 | HBL6P160 | HBL7P160 | HBL8P160 | HBL9P160 | HBL10P160 |
|---------------------------------|--|----------|-------------------|-----------|-----------------|----------|--------------------|-----------|
| Operating Specifications | | | | | | | | |
| Nominal line voltage: | 120/240 | 120/208 | 240 | 240/120 | 220/380 | 277/480 | 480 | 347/600 |
| Max. cont. operating voltage: | 150/300 | 150/300 | 300 | 300/150 | 275/390 | 320/640 | 640 | 390/780 |
| Operating frequency: | 50/60/400 Hz | | | | | | | |
| Max. surge current/phase: | 160KA | | | | | | | |
| Max. surge current per mode: | 80KA | | | | | | | |
| | *L-L, L-N, L-G, N-G | | | | | | | |
| Operating temperature: | -40° to +140° F (-20° to +80° C) | | | | | | | |
| Diagnostics: | Red & Green Status LEDs, Diagnostic Test Switches, Dry Contacts, Audible Alarm, Optional Surge Counter | | | | | | | |
| Performance | | | | | | | | |
| UL1449, 2nd edition | | | | | | | | |
| Clamping voltage: | 400 V | 400 V | 700 V | 600/400 V | 600 V | 800 V | 1500 V | 900 V |
| ANSI/IEEE C62.41: | | | | | | | | |
| Clamping Voltage: | | | | | | | | |
| Category A3 200A (Ringwave) | 350 | 350 | 640 | 640/350 | 590 | 740 | 1510 | 630 |
| Category B3 500A (Ringwave) | 410 | 410 | 700 | 700/410 | 730 | 900 | 1580 | 870 |
| Category C1 3000A (Impulse) | 480 | 480 | 780 | 780/480 | 810 | 1000 | 1660 | 1000 |
| EMI/RFI noise rejection: | Up to -50dB | | | | | | | |
| Thermal fusing: | Yes | | | | | | | |
| Fault current fusing: | 200K AIC Fusing Per Mode | | | | | | | |
| Mechanical Description | | | | | | | | |
| Dimensions: | 4.7"D x 10"W x 16.2"H | | Housing ratings: | | Product weight: | | Connection method: | |
| | | | NEMA 12, Metallic | | 17 lbs. | | #2/0 AWG Terminals | |
| Warranty | | | | | | | | |
| Product: 10 Years | | | | | | | | |

*L-L on all Delta configured products only

PANEL-MOUNTED SURGE PROTECTION

The SpikeShield line of branch panel surge suppressors provides a 100,000 peak amperage capacity series that includes a compact panel design.

This product line also incorporates the innovative thermal fusing and sine wave tracking features found in the larger-size panel protector products.

The panel series is designed to provide top-of-the line surge protection in areas that contain dust, dirt and noncorrosive dripping liquids. The panel series comes in a NEMA 12 enclosure that is compact in size and can be mounted adjacent to the branch panel in order to reduce lead lengths and improve protection.

FEATURES

Thermal fusing

Compact design

100KA peak amp capacity

LED & audible alarm

Sine wave tracking

BENEFITS

Thermal fuse remains functional to prevent the MOV from overheating when exposed to high current levels, a patented Hubbell exclusive.

Allows installation in areas with space restrictions and helps minimize connecting lead lengths which can cause impedance.

Provides high level of protection for equipment under severe electrical conditions.

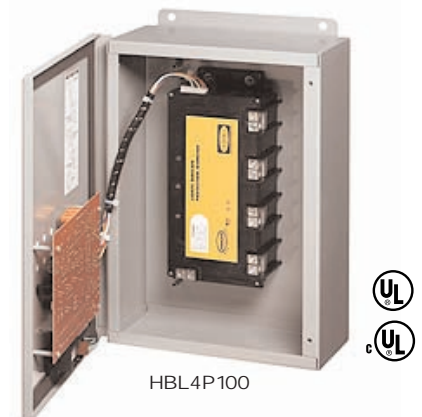
Provides visual and audible indication of suppressor status.

Provides uniform clamping throughout the sine wave.

All panel products are UL Listed (cUL) to Standard 1449, 2nd Edition.



HBL4P100



HBL4P100



ORDERING INFORMATION

Panel-mounted surge protection with 100,000 peak amperage capacity.

| VOLTAGE | PHASE CONFIGURATION | CATALOG # |
|----------|---------------------|-----------|
| 120/240V | 1 ϕ | HBL3P100 |
| 120/208V | 3 ϕ Wye | HBL4P100 |
| 240V | 3 ϕ Delta | HBL5P100 |
| 240/120V | 3 ϕ Delta | HBL6P100 |
| 220/380V | 3 ϕ Wye | HBL7P100 |
| 277/480V | 3 ϕ Wye | HBL8P100 |
| 480V | 3 ϕ Delta | HBL9P100 |
| 347/600V | 3 ϕ Wye | HBL10P100 |

SPECIFICATIONS

SERIES

| | HBL3P100 | HBL4P100 | HBL5P100 | HBL6P100 | HBL7P100 | HBL8P100 | HBL9P100 | HBL10P100 |
|---------------------------------|--|----------|------------------|-------------------|----------|-----------------|----------|-----------|
| Operating Specifications | | | | | | | | |
| Nominal line voltage: | 120/240 | 120/208 | 240 | 240/120 | 220/380 | 277/480 | 480 | 347/600 |
| Max. cont. operating voltage: | 150/300 | 150/300 | 300 | 300/150 | 275/390 | 320/640 | 640 | 390/780 |
| Operating Frequency: | 50/60/400 Hz | | | | | | | |
| Max. surge current/phase: | 100KA | | | | | | | |
| Max. surge current per mode: | 50KA | | | | | | | |
| | *L-L, L-N, L-G, N-G | | | | | | | |
| Operating temperature: | -40° to +140° F (-20° to +80° C) | | | | | | | |
| Diagnostics: | Red & Green Status LEDs, Diagnostic Test Switches, Dry Contacts, Audible Alarm, Optional Surge Counter | | | | | | | |
| Performance | | | | | | | | |
| UL1449, 2nd edition | | | | | | | | |
| Clamping voltage: | 400 V | 400 V | 700 V | 600/400 V | 600 V | 800 V | 1500 V | 900 V |
| ANSI/IEEE C62.41: | | | | | | | | |
| Clamping voltage: | | | | | | | | |
| Category A3 200A (Ringwave) | 350 | 350 | 920 | 500/350 | 500 | 610 | 1480 | 700 |
| Category B3 500A (Ringwave) | 420 | 420 | 1090 | 660/420 | 660 | 740 | 1540 | 810 |
| Category C1 3000A (Impulse) | 450 | 450 | 1090 | 760/450 | 760 | 840 | 1620 | 950 |
| EMI/RFI noise rejection: | Up to -50dB | | | | | | | |
| Thermal fusing: | Yes | | | | | | | |
| Mechanical Description | | | | | | | | |
| Dimensions: | 4.7"D x 10"W x 16.2"H | | Housing ratings: | NEMA 12, Metallic | | Product weight: | 17 lbs. | |
| Connection method: | #2/0 AWG Terminals | | | | | | | |
| Warranty | | | | | | | | |
| Product: | 10 Years | | | | | | | |

*L-L on all Delta configured products only



WIRED-IN SURGE PROTECTION

The wired-in surge suppression block design is ideal for areas where space is a major consideration. The surge block can be mounted directly to the panel through a chase nipple connection which will reduce lead length and impedance while increasing protection levels.

An optional version of this product is available without filtering for signal sensitive applications. The nonfiltered version will not interfere with clocking and power line carrier signals (for lighting controls) by allowing safe passage for the control signals while maintaining protection for the sensitive electronic system. The control signals, if filtered, could cause certain systems to go out of synchronization.



HBL4W100



HBL4W100



FEATURES

Thermal fusing

Compact design

100KA peak amp capacity

LED & audible alarm

Sine wave tracking

Wired-in products are UL Listed (cUL) to Standard 1449, 2nd Edition.

BENEFITS

Thermal fuse remains functional to prevent the MOV from overheating when exposed to high current levels, a patented Hubbell exclusive.

Allows installation in areas with space restrictions and helps minimize connecting lead lengths which can cause impedance.

Provides high level of protection for equipment under severe electrical conditions.

Provides visual and audible indication of suppressor status.

Provides uniform clamping throughout sine wave. (Not included on nonfiltered version.)

ORDERING INFORMATION

Wired-in branch panel surge protection with 100,000 peak amperage capacity.

| VOLTAGE | PHASE CONFIGURATION | CATALOG # | WITHOUT FILTER |
|----------|---------------------|-----------|----------------|
| 120/240V | 1 ϕ | HBL3W100 | HBL3W100NF |
| 120/208V | 3 ϕ Wye | HBL4W100 | HBL4W100NF |
| 240V | 3 ϕ Delta | HBL5W100 | HBL5W100NF |
| 240/120V | 3 ϕ Delta | HBL6W100 | HBL6W100NF |
| 220/380V | 3 ϕ Wye | HBL7W100 | HBL7W100NF |
| 277/480V | 3 ϕ Wye | HBL8W100 | HBL8W100NF |
| 480V | 3 ϕ Delta | HBL9W100 | HBL9W100NF |
| 347/600V | 3 ϕ Wye | HBL10W100 | HBL10W100NF |

SPECIFICATIONS

| | HBL3W100/ HBL3W100NF | HBL4W100/ HBL4W100NF | HBL5W100/ HBL5W100NF | HBL6W100/ HBL6W100NF | HBL7W100/ HBL7W100NF | HBL8W100/ HBL8W100NF | HBL9W100/ HBL9W100NF | HBL10W100/ HBL10W100NF |
|---|---|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------------|
| Operating Specifications | | | | | | | | |
| Nominal line voltage: | 120/240 | 120/208 | 240 | 240/1200 | 220/380 | 277/480 | 480 | 347/600 |
| Max. cont. operating voltage: | 150/300 | 150/300 | 300 | 300/150 | 275/390 | 320/640 | 640 | 390/780 |
| Operating frequency: | 50/60/400 Hz | | | | | | | |
| Max. surge current/phase: | 100KA | | | | | | | |
| Max. surge current per mode: | 50KA | | | | | | | |
| *L-L, L-N, L-G, N-G | 50KA | | | | | | | |
| Operating temperature: | -40° to +140° F (-20° to +80° C) | | | | | | | |
| Diagnostics: | Green Status LED, Audible Alarm, Dry Contacts | | | | | | | |
| Performance | | | | | | | | |
| UL1449, 2nd edition | | | | | | | | |
| Clamping voltage: | 400 V | 400 V | 800 V | 700/400 V | 700 V | 800 V | 1500 V | 900 V |
| ANSI/IEEE C62.41: | | | | | | | | |
| Clamping voltage: | | | | | | | | |
| Category A3 200A (Ringwave)/NF | 470/520 V | 470/520 V | 1460/1460 V | 590/470/790/520 V | 590/790 V | 670/850 V | 1620/1720 V | 740/1010 V |
| Category B3 500A (Ringwave)/NF | 620/650 V | 620/650 V | 1630/1630 V | 780/620/910/650 V | 780/910 V | 810/970 V | 850/1160 V | 850/1160 V |
| Category C1 3000A (Impulse)/NF | 650/650 V | 650/650 V | 1630/1630 V | 920/650/1050/650 V | 920/940 V | 980/980 V | 1080/1890V | 1080/1160V |
| EMI/RFI noise rejection/NF: | Up to -40dB/Up to -20dB | | | | | | | |
| Thermal fusing: | Yes | | | | | | | |
| Mechanical Description | | | | | | | | |
| Dimensions: | 2.6"D x 4.75"W x 10.6"H | | Housing ratings: | NEMA 1, Metallic | | Product weight: | 3 lbs. | |
| Connection method: | #10 AWG Wire leads | | | | | | | |
| Warranty | | | | | | | | |
| Product: | 10 Years | | | | | | | |
| *L-L on all Delta configured products only. | | | | | | | | |



WIRED-IN SURGE PROTECTION FOR INDUSTRIAL, COMMERCIAL, INSTITUTIONAL AND RESIDENTIAL APPLICATIONS

The Hubbell SpikeShield product line also includes the most versatile offering of wired-in surge suppressors for industrial, commercial, institutional and residential applications. This product offering provides a 65,000 peak amp capacity and can be mounted to the branch panel or inside a cabinet. This product offering also has a version that includes a mounting plate for installation on finished walls.

Hubbell has incorporated its top-of-the-line innovation into this compact and economical design. Thermal fusing protection on all modes and sine wave tracking are some of the features that make this the top product in its class.



HBL3W65



| FEATURES | BENEFITS |
|------------------------------|--|
| Thermal fusing | Thermal fuse remains functional to prevent the MOV from overheating when exposed to high current levels, a patented Hubbell exclusive. |
| NEMA Type 3R housing | Provides rain and dust-tight protection for reliable outdoor use. |
| LED and audible alarm | Provides visual and audible indication of suppressor status. |
| Sine wave tracking | Provides uniform clamping throughout the sine wave. |

Wired-in products are UL Listed (cUL) to standard 1449, 2nd Edition.



HBL3F65



ORDERING INFORMATION

Wired-in panel surge protection, 65KA peak amperage capacity.

| VOLTAGE | CATALOG # |
|----------|-----------|
| 120V | HBL1W65 |
| 240V | HBL2W65 |
| 120/240V | HBL3W65 |

Flush-mount wired panel surge protection, 65KA peak amperage capacity.

| VOLTAGE | CATALOG # |
|----------|-----------|
| 120/240V | HBL3F65 |

SPECIFICATIONS

| | HBL1W65 | HBL2W65 | HBL3W65 | HBL3F65 |
|---------------------------------|--|--|------------------------------------|---|
| Operating Specifications | | | | |
| Nominal line voltage: | 120 | 220 | 120/240 | 120/240 |
| Max. cont. operating voltage: | 150 | 320 | 150/300 | 150/300 |
| Operating frequency: | 50/60/400 Hz | | | |
| Max. surge current/phase: | 65KA | | | |
| Max. surge current per mode: | 32.5KA | | | |
| L-N, L-G, | 16KA | | | |
| N-G | | | | |
| Operating temperature: | -40° to +140° F (-20° to +80° C) | | | |
| Diagnostics: | Green Status LEDs, Audible Alarm | | | |
| Performance | | | | |
| UL1449, 2nd edition | | | | |
| Clamping voltage: | 400 V | 800 V | 700 V | 400 V |
| ANSI/IEEE C62.41: | | | | |
| Clamping voltage: | | | | |
| Category A3 200A (Ringwave) | 330 V | 420 V | 330 V | 330 V |
| Category B3 500A (Ringwave) | 360 V | 540 V | 360 V | 360 V |
| Category C1 3000A (Impulse) | 500 V | 710 V | 500 V | 500 V |
| EMI/RFI noise rejection: | Up to -40dB | | | |
| Thermal fusing: | Yes | | | |
| Mechanical Description | Dimensions: 2.25"D x 2.99"W x 4.28"H 7"x7" Flushmount Plate (HBL3F65) | Housing ratings: NEMA 3R, Non-Metallic | Product weight: 1.0 lbs. | Connection method: #10 AWG Wire leads |
| Warranty | Product: 10 Years | | | |



OEM/SPECIALTY SURGE PROTECTION

The SpikeShield offering includes a selection of hard-wired surge suppressors that can be internally mounted inside equipment cabinets. These devices provide point-of-use protection for electronic cabinets that will be used in remote locations or in severe electrical environments. This product line has a 65,000 peak amp capacity and is offered with DIN rail* or terminal mounting** options.

Both products are ideal for panel builders, manufacturers and integrators of control or instrumentation cabinets for industrial, medical or commercial applications.



HBL1DR65



HBL1T65



FEATURES

Thermal fusing

Compact design

LED indicator status

Sine wave tracking

* DIN rail product comes with audible alarm.

** Terminal mount product comes with enhanced performance resulting from inductive series design.

DIN Rail and terminal mounted products are UL recognized in accordance with Standard 1449, 2nd Edition.

BENEFITS

Thermal fuse remains functional to prevent the MOV from overheating when exposed to high current levels, a patented Hubbell exclusive.

Allows installation in areas with space restrictions. Minimizes connecting lead length and reduces impedance which ensures improved clamping performance.

Provides visual indication of suppressor status.

Provides uniform clamping throughout the sine wave.

ORDERING INFORMATION

| VOLTAGE | CATALOG # |
|---------|-----------|
| 120V | HBL1DR65* |
| *240V | HBL2DR65* |

*DIN rail mounted, 65KA peak amperage capacity.

| | |
|------|-----------|
| 120V | HBL1T65** |
| 240V | HBL2T65** |

**Terminal series mounted, 65KA peak amperage capacity.

* Not intended for domestic 120/240V configurations.

SPECIFICATIONS

| | HBL1DR65 | HBL2DR65 | HBL1T65 | HBL2T65 |
|---------------------------------|--------------------------------------|----------|--------------------------|---------|
| Operating Specifications | | | | |
| Nominal line voltage: | 120 | 240 | 120 | 240 |
| Max. cont. operating voltage: | 150 | 320 | 150 | 270 |
| Max. cont. operating current: | - | - | 20A | 20A |
| Operating frequency: | 50/60/400 Hz | | | |
| Max. surge current/phase: | 65KA | | | |
| Max. surge current per mode: | | | | |
| L-N, L-G | 32.5KA | | | |
| N-G | 16KA | | | |
| Operating temperature: | -40° to +140° F (-20° to +80° C) | | | |
| Diagnostics: | Green Status LED, Diagnostic Contact | | | |
| Performance | | | | |
| UL1449, 2nd edition | | | | |
| Clamping voltage: | 400 V | 800 V | 400 V | 600 V |
| ANSI/IEEE C62.41: | | | | |
| Clamping voltage: | | | | |
| Category A3 200A (Ringwave) | 320 V | 490 V | 310 V | 460 V |
| Category B3 500A (Ringwave) | 340 V | 800 V | 350 V | 580 V |
| Category C1 3000A (Impulse) | 500 V | 980 V | 400 V | 700 V |
| EMI/RFI noise rejection: | Up to -40dB | | Up to -65dB | |
| Thermal fusing: | Yes | | | |
| Mechanical Description | | | | |
| Dimension: | 2.28"D x 2.82"W x 3.5"H | | 2.07"D x 3.55"W x 6.82"H | |
| Housing ratings: | NEMA 1, Non-Metallic | | NEMA 1, Non-Metallic | |
| Product weight: | 0.5 lb | | 1 lb | |
| Connection method: | #12 AWG Terminals | | | |

Warranty

Product: 10 Years



HOMEGUARD™ METER MOUNTED RESIDENTIAL SURGE PROTECTION

The SpikeShield TVSS offering from Hubbell also includes a product designed to provide “whole house protection” at the utility meter socket. The HomeGuard surge suppression system provides service entrance protection against lightning or other externally generated transients. This product has a 100,000 peak amp capacity for single phase 200 amp meter sockets. HomeGuard is designed to isolate your home from external events that affect power quality.

FEATURES

Thermal fusing

Meter socket adapter design

Audible alarm

HomeGuard is UL (cUL) Listed as a secondary surge arrester and tested to ANSI C62.11 Standard.

BENEFITS

Thermal fuse remains functional to prevent the MOV from overheating when exposed to high current levels, a patented Hubbell exclusive.

Mounts quickly and easily to the meter socket at the entrance.

Audible alarm for module failure.



HBL65MPC



ORDERING INFORMATION

DESCRIPTION

Meter-socket mounted, whole-house surge suppressor

VOLTAGE

120/240V

CATALOG

HBL65MPC

Hubbell HomeGuard meter-mounted surge suppression connected to local utility service* is shown below.

*HomeGuard meter mounted surge protection should be installed by your local utility service.

SPECIFICATIONS

| | | HBL65MPC | | |
|------------------------------------|-------------------------|----------------------------------|------------------------|---------------------------|
| Operating Specifications | | | | |
| Nominal line voltage: | | 120/240 | | |
| Max. cont operating voltage: | | 250 | | |
| Operating frequency: | | 50/60/400 Hz | | |
| Max. surge current: | | 100KA | | |
| Max. surge current per mode: | | | | |
| L1-G, L2-G | | 50KA | | |
| Operating temperature: | | -40° to +140° F (-20° to +80° C) | | |
| Diagnostics: | | Audible alarm | | |
| Performance | | | | |
| UL Listed secondary surge arrester | | | | |
| Clamping voltage: | | 400 V | | |
| ANSI/IEEE C62.11: | | | | |
| Clamping voltage: | | | | |
| Category A3 200A (Ringwave) | | 600 V | | |
| Category B3 500A (Ringwave) | | 660 V | | |
| Category C1 3000A (Impulse) | | 690 V | | |
| EML/RFI noise rejection: | | Up to -20dB | | |
| Thermal fusing: | | Yes | | |
| Mechanical Description | Dimensions: | Housing ratings: | Product weight: | Connection method: |
| | 3.63"H x 8.73"D | NEMA 3R, Non-Metallic | 2 lbs. | Meter Base |
| Warranty | Product:10 Years | | | |