SECTION G



Advantage[™] Series Switch-Rated Devices



HBL[®] Watertight IEC Pin and Sleeve



Circuit-Lock[®] Unfused and Fused Mechanical Interlocks



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Products at a Glance



Advantage™ Series Pin and Sleeve Switch-Rated Devices

- Advantage[™] series devices are approved as disconnecting means for both motor circuitry and branch circuits
- Robust and durable housing, UV-stabilized, impact and corrosion-resistant PBT housing is designed to withstand harsh industrial environments

IEC Watertight Devices

- Provide safe and dependable performance in the most demanding environments
- Heavy duty non-conductive nylon construction
 provides impact and corrosion protection
- Thermoset polyester contact carriers withstand high temperatures and provide resistance to electrical tracking



Circuit-Lock® Mechanical Interlocks

- IEC pin and sleeve devices are color coded by voltage for easy identification
- Available in either fused or non-fused versions
- IEC reverse service units available for safely connecting generators



Corrosion Resistant Devices

- This superior grade of IEC and Insulgrip devices are ideal for the most demanding environments
- Nickel-plated brass on the IEC and nickelplated Tellurium copper on the Insulgrip contacts prevent corrosion and heat rise



Insulgrip[®] NEMA 4X UL 1686 C1 Devices

- Metallic where you want it and non-metallic where you need it
- This tough product line is NEMA 4X rated for use in the harshest environments
- Devices are fully interchangeable with other manufacturers of UL1686 C1 devices



Back Boxes and Accessories

- A complete line of metallic and nonmetallic back boxes, angle adapters, closure caps and liquidtight adapters are available
- Accessories aid with installation efficiencies and support the various applications in which the products are used



Low Profile Devices

- 90° Angled plugs and recessed receptacles allow for connections in tight spaces
- Cords can be controlled easily along the wall
- The integrated cord grips limit strain on terminals and prevent strain on plugs



Hazardous Location Devices

- Copper-free aluminum construction with electrostatically applied polyester/epoxy finish to prevent corrosion
- Large visible rotary handle with ON/OFF indicator allows a quick means of disconnecting power

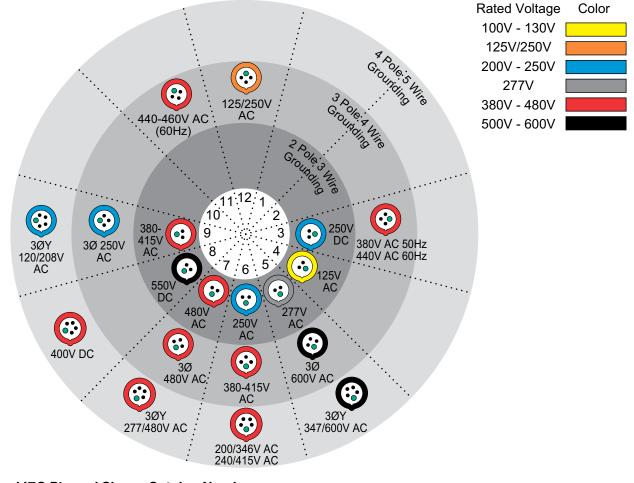
IEC Configurations Chart

Singly Rated Configurations

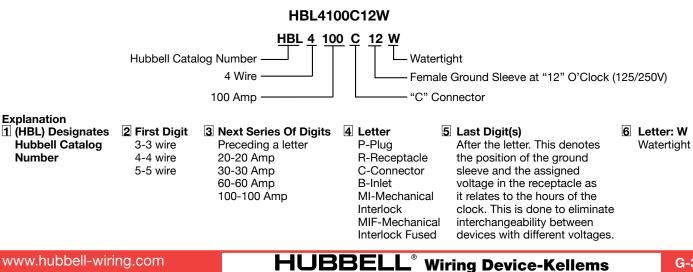
Hubbell Pin and Sleeve products are designed and manufactured to meet the International Standard IEC 60309-1 and IEC 60309-2. This device standard calls out a singly rated, non-interchangeable configuration for every voltage and type of service throughout the world. Pin and sleeve device housings are color coded by voltage rating.

Voltage

The voltage is determined by the location of the female ground contact relative to the housing keyway. Simply by manufacturing the device with a ground contact in a certain "clock" position, the device will be rated for a particular voltage system. The diagram shows the keying position and the color coding that is associated with each voltage.



Typical IEC Pin and Sleeve Catalog Number



Features and Benefits

Advantage[™] Series Pin and Sleeve Switch-Rated

Hubbell Wiring Device-Kellems Advantage[™] Series Pin and Sleeve Switch-Rated Devices are IEC 60309-2 compatible devices that are approved as a disconnecting means for motor and branch circuits. Compact design, this device is similar in size to standard IEC 60309-2 devices. Robust and durable housing, UV-stabilized, impact and corrosion-resistant PBT housing is designed to withstand harsh industrial environments. Stainless steel hardware provides superior corrosion resistance in wet and harsh environments Receptacles mount to standard Hubbell IEC Pin and Sleeve back boxes.





Housing Design

- Rugged one-piece housing, thick wall construction protects internal components, eliminates joints preventing infiltration of contaminants
- IEC pin and sleeve devices are color coded by voltage for easy identification



Heavy Duty External Cord Grips

- Provides maximum cord retention to maintain unstressed terminations
- Pocketed recess for screws deters slippage of the screwdriver and are conveniently located on the same side for easy installation



Ease of Use

• Ergonomic design puts the Advantage™ into the palm of your hands with the easy-to-use leverage grip design from Hubbell



Spring-Loaded Cover

- Spring-loaded to the open position, reminding users that the cover must be secured to ensure maximum ingress protection
- Impact resistant cover arm compact and durable internal swing arm is fully shrouded protecting it from damage



Spring-Loaded Disconnect Button

• Oversized for easy actuation with gloved hands



Full Line of Accessories

- Advantage series receptacles have same mounting pattern as our standard receptacles, for non-metallic and metallic back boxes (see page G-14)
- Full offering of liquidtight adapters (see page G-15)

Features and Benefits

Advantage[™] Series Pin and Sleeve Switch-Rated

The Advantage[™] Series has a UL witnessed IP69k and 4X,12 environmental rating, two power-indicating LEDs, continuous ground engagement, labelless laser markings and a compact and ergonomic design.

Hubbell's Pin and Sleeve connections have always been safe – that hasn't changed. The Advantage™ series simply has more... Advantages.



The Hubbell Advantages



Sleek and Modern Design

• The ergonomic device is easy to keep clean making it ideal for hygienic food processing facilities







Permanent Labelless Markings

• Product ratings are laser-marked into the device and will not wash off for easy permanent identification

c(UL)us



IP69

PWR



Continuous Ground Engagement

Unswitched feed-through ground pin is first-to-make and last-to-break followed by switched neutral and phase contact(s)



Superior Water Ingress Protection

• UL witnessed IP69k and UL Type 4X and 12. Device is built to withstand wet and harsh environments



IEC 60309 Singularly Rated Device

 Mates with existing installed base of IEC 60309-2 pin and sleeve devices. Color coded by voltage for easy identification of mating devices





Power Indicating LED Lights

• Highly visible and long lasting green LED lights on both sides of the device provide visual verification of power when connected

| | | Ra | ating | | | Pin and S | leeve | e Devices | | Accessories | | |
|----------|-----------------------|------------------------------|--------------------------|----------------------------------|-------------|-------------|-------|---------------|-------------|-------------|--------------|--|
| Amps | Poles and Wires | Configur Recep./ Conn. | ration Plug/ Inlet | AC Voltage | Connector | Receptacle | HP | Mating Plug** | IP67 Inlet | Back Boxes | Closure Caps | |
| 30 | 2P 3W | | O | 125V | HBLS330C4W | HBLS330R4W | 2 | HBLS330P4W | HBL330B4W | BB2030N | PC3430 | |
| 32 | 2P 3W | | Õ | 100-130V | HBLS332C4W | HBLS332R4W | 2 | HBLS332P4W | HBL332B4W | BB2030N | PC3430 | |
| 30 | 2P 3W | O | Õ | 250V | | | | | | | | |
| 32 | 2P 3W | | \odot | 220-240V | HBLS330C6W* | HBLS330R6W* | 5 | HBLS330P6W* | HBL330B6W* | BB2030N | PC3430 | |
| 30 | 2P 3W | | \odot | 480V | HBLS330C7W | HBLS330R7W | 10 | HBLS330P7W | HBL330B7W | BB2030N | PC3430 | |
| 30 | 3P 4W | | \odot | 125/250V | HBLS430C12W | HBLS430R12W | 2 | HBLS430P12W | HBL430B12W | BB2030N | PC3430 | |
| 30/32 | 3P 4W | | \odot | 3Ø 250V | HBLS430C9W* | HBLS430R9W* | 10 | HBLS430P9W* | HBL430B9W* | BB2030N | PC3430 | |
| 30 | 3P 4W | | \odot | 3Ø 480V | HBLS430C7W | HBLS430R7W | 20 | HBLS430P7W | HBL430B7W | BB2030N | PC3430 | |
| 30 | 3P 4W | | \bigcirc | 3Ø 600V | HBLS430C5W | HBLS430R5W | 30 | HBLS430P5W | HBL430B5W | BB2030N | PC3430 | |
| 30/32 | 3P 4W | | \odot | 380-415V | HBLS430C6W* | HBLS430R6W* | 7.5 | HBLS430P6W* | HBL430B6W* | BB2030N | PC3430 | |
| 32 | 3P 4W | | \odot | 380-440V | HBLS432C3W | HBLS432R3W | 10 | HBLS432P3W | HBL432B3W | BB2030N | PC3430 | |
| 30 | 4P 5W | | \odot | 3ØY 347/600V | HBLS530C5W | HBLS530R5W | 30 | HBLS530P5W | HBL530B5W | BB2030N | PC530 | |
| 30 32 | 4P 5W 4P 5W | | © © | 200/346- 240/415V 220/380V | HBLS530C6W* | HBLS530R6W* | 7.5 | HBLS530P6W* | HBL530B6W* | BB2030N | PC530 | |
| 30 | 4P 5W | | © | 240/415V 3ØY 277/480V | HBLS530C7W | HBLS530R7W | 20 | HBLS530P7W | HBL530B7W | BB2030N | PC530 | |
| 30/32 | 4P 5W | | Ö | 3ØY 120/208V | HBLS530C9W* | HBLS530R9W* | 10 | HBLS530P9W* | HBL530B9W* | BB2030N | PC530 | |
| 60 | 2P 3W | | Ô | 125V | HBLS360C4W | HBLS360R4W | 3 | HBLS360P4W | HBLS360B4W | BB60N | PC60 | |
| 60 | 2P 3W | | Ö | 250V | | | | | | BBOON | DO 00 | |
| 63 | 2P 3W | | \odot | 220-240V | HBLS360C6W* | HBLS360R6W* | 7.5 | HBLS360P6W* | HBLS360B6W* | BB60N | PC60 | |
| 60 | 2P 3W | \bigcirc | \odot | 480V | HBLS360C7W | HBLS360R7W | 15 | HBLS360P7W | HBLS360B7W | BB60N | PC60 | |
| 60 | 3P 4W | | \odot | 125/250V | HBLS460C12W | HBLS460R12W | 3 | HBLS460P12W | HBLS460B12W | BB60N | PC60 | |
| 60/63 | 3P 4W | | \odot | 3Ø 250V | HBLS460C9W* | HBLS460R9W* | 10 | HBLS460P9W* | HBLS460B9W* | BB60N | PC60 | |
| 60 | 3P 4W | | \odot | 3Ø 480V | HBLS460C7W | HBLS460R7W | 30 | HBLS460P7W | HBLS460B7W | BB60N | PC60 | |
| 60 | 3P 4W | | \odot | 3Ø 600V | HBLS460C5W | HBLS460R5W | 40 | HBLS460P5W | HBLS460B5W | BB60N | PC60 | |
| 60/63 | 3P 4W | | \odot | 380-415V | HBLS460C6W* | HBLS460R6W* | 10 | HBLS460P6W* | HBLS460B6W* | BB60N | PC60 | |
| 60 | 4P 5W | | \odot | 3ØY 347/600V | HBLS560C5W | HBLS560R5W | 40 | HBLS560P5W | HBLS560B5W | BB60N | PC60 | |
| 60/63 | 4P 5W | | \odot | 200/346- 240/415V | HBLS560C6W* | HBLS560R6W* | 10 | HBLS560P6W* | HBLS560B6W* | BB60N | PC60 | |
| 60 | 4P 5W | | ٢ | 3ØY 277/480V | HBLS560C7W | HBLS560R7W | 30 | HBLS560P7W | HBLS560B7W | BB60N | PC60 | |
| 60/63 | 4P 5W | | 0 | 3ØY 120/208V | HBLS560C9W* | HBLS560R9W* | 10 | HBLS560P9W* | HBLS560B9W* | BB60N | PC60 | |

Note: *Certain IEC configurations allow for a single product to be certified as both a North American (Series 2) and International amperage (Series 1). These products are marked accordingly with both the UL Listing and UL Classified markings.

**Mating plug or inlet required to maintain 4X/IP69k ratings when used with ADVANTAGE™ series connections.

ADVANTAGE™ series receptacles have the same mounting pattern as standard Hubbell IEC pin and sleeve. Just add a "P" suffix for Pilot pin for 60 amp devices.

(P69k

Pin and Sleeve Devices Rating Accessories Poles Configuration and Recep./ Plug/ Amps Wires Conn. Inlet AC Voltage HP Mating Plug* Inlet Back Boxes **Closure** Caps Connector Receptacle \odot 3Ø 600V HBLS4100C5W HBLS4100R5W HBLS4100P5W HBLS4100B5W **BB100N** PC100 100 3P 4W 50 380-415V HBLS4100C6W* HBLS4100B6W **BB100N** PC100 100 3P 4W HBLS4100R6W* 15 HBLS4100P6W 3Ø 480V HBLS4100C7W HBLS4100R7W HBLS4100P7W HBLS4100B7W **BB100N** PC100 3P 4W 6 40 100 3P 4W 3Ø 250V HBLS4100C9W* HBLS4100R9W* HBLS4100P9W HBLS4100B9W **BB100N** PC100 100 15 125/250V HBLS4100C12W HBLS4100R12W HBLS4100P12W HBLS4100B12W **BB100N** PC100 100 3P 4W 10:3 3ØY HBLS5100C5W HBLS5100R5W HBLS5100P5W HBLS5100B5W **BB100N** PC100 4P 5W $\overset{\circ}{\smile}$ 100 50 347/600V 200/346-PC100 HBLS5100C6W* HBLS5100R6W* HBLS5100P6W HBLS5100B6W **BB100N** 4P 5W 100 15 240/415V ЗØҮ HBLS5100C7W HBLS5100R7W HBLS5100P7W HBLS5100B7W **BB100N** PC100 4P 5W 100 40 277/480V ЗØҮ 4P 5W HBLS5100C9W* HBLS5100R9W* HBLS5100P9W HBLS5100B9W **BB100N** PC100 100 15 120/208V

Note: *Certain IEC configurations allow for a single product to be certified as both a North American (Series 2) and International amperage (Series 1). These products are marked accordingly with both the UL Listing and UL Classified markings.

**Mating plug or inlet required to maintain 4X/IP69k ratings when used with ADVANTAGE™ series connections.

Optional Pilot Pin Available on All 60A and 100A Devices

The Pilot Pin is smaller than the ground and phase pins and are designed to make after main and break before main breaks. This pin can be used to communicate with auxiliary devices within your facility. They are "Break before main break" and by design are the last contact in the sequence to make and first to break.

| | Ra | ting | Pin and Sleeve Devices | | | | | | |
|-------|-----------------|------------|--------------------------------|-------------------------|--------------|--------------|--|--|--|
| Amps | Poles/ Wires | AC Voltage | Connector with Pilot Sleeve | Inlet with Pilot Pin | | | | | |
| 60/63 | 3P 4W | 3Ø 250V 📕 | HBLS460C9WP* | HBLS460R9WP* | HBLS460P9WP* | HBLS460B9WP* | | | |

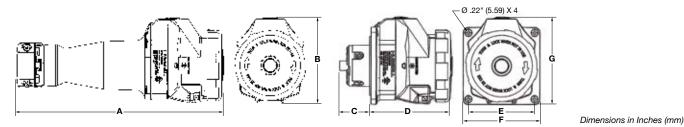
Note: *Just add a "P" suffix for Pilot pin for 60 amp devices.

Specifications

| Temperature Rise | < 30°C | |
|------------------------------|--|--|
| Dielectric Voltage | Min 2,200V AC | |
| Electrical Life | Min 6,000 Cycles at rated switch load (p.f.= .7580) | |
| Max Working Voltage | 600V AC | |
| Current Interrupting | Certified for current interrupting at full rated current and voltage | |
| Horsepower Locked Rotor Test | 50 Operations at 600% of full load motor current (p.f.= .4050) | |
| Short Circuit | 100kA when protected by Class J fuse. Also 125A RK1 fuse for 100A devices only | |
| Endurance | Min 10,000 mating cycles | |
| Flammability | V-0 | |
| Operating Temperature | Max Continuous +75°C; Min continous -40°C | |
| Environmental | Type 4X, 12 and IP69k | |
| UV Resistance | All materials are UV stabilized | |

Dimensions

| | A | В | С | D | E | F | G |
|-------------|----------------|---------------|--------------|---------------|---------------|---------------|---------------|
| Description | Cor | nnector | | | Receptacle | | |
| 30A | 9.9" (251.5) | 4.5" (114.3) | 1.06" (27.2) | 3.83" (97.3) | 3.13" (79.4) | 3.75" (95.2) | 4.5" (114.3) |
| 60A | 12.22" (310.4) | 5.17" (131.3) | 1.85" (47.0) | 4.77" (121.2) | 3.88" (98.6) | 4.52" (114.8) | 5.09" (129.3) |
| 100A | 15.89" (403.6) | 5.63" (142.9) | 3.08" (78.2) | 5.03" (127.6) | 4.87" (123.7) | 5.63" (142.9) | 5.88" (149.3) |







Features and Benefits

Watertight Devices

Hubbell's IEC 60309 Pin and Sleeve plugs, connectors, inlets and receptacles are the highest performing products available. The HBL® series of IEC pin and sleeve were designed for the demanding North American market. Hubbell was the first and is still only manufacturer of IEC 60309 devices in the USA and have numerous innovative features noted below.



(SP.

(UL)



Housing Design

- Insulated non-metallic housing, super tough, non-conductive and chemical resistant for heavy duty industrial environments
- IEC pin and sleeve devices are color coded by voltage for easy identification
- Self-closing gasketed cover, detents into position to fully close automatically



Powerful Mechanical Cord Grip

- Hubbell's design incorporates two molded-in teeth to securely grip the outer cable jacket, and internal conductors to prevent slippage and strain on terminations
- Captive barrel nuts ease assembly and allow higher tightening torque for maximum cord retention



Watertight Cord Entrance

- The tapered bore entrance creates high compression forces on sealing gland, providing a watertight seal around cord
- Individual solid neoprene glands are supplied to match a full range of cord sizes and assure watertight performance



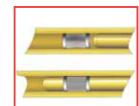
Liquidtight Conduit Adapters

 Aluminum or non-metallic adapters are available to provide a means for attaching flexible liquidtight metal conduit to rear of Hubbell Pin and Sleeve plug or connector



Sequential Contact Engagement

- Ground makes first and breaks last. Neutral makes second and breaks second (to prevent a momentary over-voltage on components connected phase to neutral)
- Phase contacts make last and break first



Multi-Contact Spring

- (60/63 and 100/125 Amp) Recessed within the female sleeve, provides and maintains high unit pressure on mating pins to minimize temperature rise
- Broaches oxide film to achieve low resistance contact for cooler operation

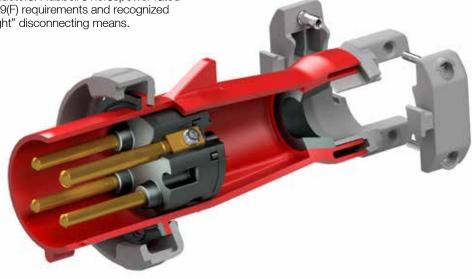
Features and Benefits

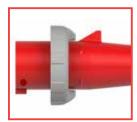
TYPE 4X, 12

SP.

Watertight Devices

The IEC line of plugs and connectors are made with a rugged super tough, one-piece housing. The thermoset polyester contact carrier provides a high resistance to electrical tracking. They withstand higher temperatures which may result from overload or arcing. The heavy-duty, external cord grip provides superior strain relief on the conductors. Hubbell's horsepower rated plugs and receptacles meet NEC 430.109(F) requirements and recognized as an approved disconnecting/"line of sight" disconnecting means.





Housing Design

- Rugged one-piece housing, thick wall construction protects internal components, eliminates joints preventing infiltration of contaminants
- Amperage/voltage rating and catalog number molded in housing for easy identification



Shrouded Pins

- Super tough plug shroud protects pins from deforming from physical abuse
- Protects the user from the possibility of touching live contacts during insertion and withdrawal of mating parts
- Solid one-piece pins, machined from solid brass for longer life and reliable electrical contact



Safety

 Lockout/Tagout, tapered opening on plug shroud accommodates up to % inch (9.7mm) lock shackle diameter



Thermoset Polyester Contact Carrier

- Molded thermoset polyester provides high resistance to electrical tracking
- Withstands higher temperatures which may result from overload or arcing
- Thermoset properties provide dimensional stability for this critical assembly



Cord Grips

 Heavy duty external cord grips provide maximum cord retention to maintain secure terminations



Swivel Pressure Pads

 16/20 and 30/32 Amp devices feature patented swiveling pressure pad terminal screws and prevent damage to conductor strands. 60/63 and 100/125 Amp devices feature large hex-head stainless steel screws which provide higher torque levels for secure terminations

| | | | | γ | | | | Y | | | TYPE 4X, 12 | |
|---------|------------|----------|------------------------|------------------------|------------------------|------------------------|---------------------------------|---------|-----------------------|---------|----------------------|----------------------|
| | | Rating | | | Watertigh | nt Devices | | A | ccessories | 5 | Replaceme | ent Interiors |
| 47770 | and Rece | | | | Dha | Connector | | Back | Boxes ic Metallic* | Closure | Recep./ | Plug/ |
| Amps | Wires Conr | - | AC Voltage | Receptacle | Plug HBL316P4W | Connector HBL316C4W | Inlet HBL316B4W [†] | BB2030N | BB201W | Caps | Conn. | Inlet |
| 16 | 2P 3W 🙆 | | 100-1300 | HDL310H4W | HDL310P4W | HDL310C4W | HDL310D4W | BB2030N | BB301W | PG320 | INJZUBF | |
| 20 | 2P 3W 🙆 | \odot | 125V | HBL320R4W | HBL320P4W | HBL320C4W | HBL320B4W | BB2030N | BB201W BB301W | PC320 | IN320AF | IN320AM |
| 16/20 | 2P 3W 🕥 | \odot | 220-240V 250V | HBL320R6W | HBL320P6W | HBL320C6W | HBL320B6W | BB2030N | BB201W BB301W | PC320 | IN320BF | IN320BM |
| 20 | 2P 3W 💽 | \odot | 480V | HBL320R7W | HBL320P7W | HBL320C7W | HBL320B7W | BB2030N | BB201W BB301W | PC320 | IN320BF | IN320BM |
| 20 | 3P 4W 💿 | \odot | 125/250V | HBL420R12W | HBL420P12W | HBL420C12W | HBL420B12W | BB2030N | BB201W BB301W | PC420 | IN420CF | IN420CM |
| 10/00 | 3P 4W 🚱 | \odot | 380-415V | HBL420R6W | HBL420P6W | HBL420C6W | HBL420B6W | BB2030N | BB201W BB301W | PC420 | IN420DF | IN420DM |
| 16/20 | 3P 4W 📀 | \odot | 3Ø 250V | HBL420R9W | HBL420P9W | HBL420C9W | HBL420B9W | BB2030N | BB201W BB301W | PC420 | IN420DF | IN420DM |
| 20 | 3P 4W 🚱 | \odot | 3Ø 480V | HBL420R7W | HBL420P7W | HBL420C7W | HBL420B7W | BB2030N | BB201W BB301W | PC420 | IN420DF | IN420DM |
| 20 | 3P 4W 🚱 | \odot | 3Ø 600V | HBL420R5W | HBL420P5W | HBL420C5W | HBL420B5W | BB2030N | BB201W BB301W | PC420 | IN420DF | IN420DM |
| 16/20 | 4P 5W 🚱 | \odot | 220/380V 240/415V | HBL520R6W | HBL520P6W | HBL520C6W | HBL520B6W | BB2030N | BB201W BB301W | PC520 | IN520EF [†] | IN520EM |
| 10/20 | 4P 5W 👀 | \odot | 3ØY 120/208V | HBL520R9W | HBL520P9W | HBL520C9W | HBL520B9W | BB2030N | BB201W BB301W | PC520 | IN520EF [†] | IN520EM |
| 20 | 4P 5W 🚱 | \odot | 3ØY 277/480V | HBL520R7W | HBL520P7W | HBL520C7W | HBL520B7W | BB2030N | BB201W BB301W | PC520 | IN520EF [†] | IN520EM |
| 20 | 4P 5W 🚱 | \odot | 3ØY 347/600V | HBL520R5W | HBL520P5W | HBL520C5W | HBL520B5W | BB2030N | BB201W BB301W | PC520 | IN520EF [†] | IN520EM |
| 30 | 2P 3W 📀 | \odot | 125V | HBL330R4W | HBL330P4W | HBL330C4W | HBL330B4W | BB2030N | BB201W BB301W | PC3430 | IN330AF | IN330AM [†] |
| 30/32 | 2P 3W 🕝 | \odot | 220-240V 250V | HBL330R6W | HBL330P6W | HBL330C6W | HBL330B6W | BB2030N | BB201W BB301W | PC3430 | IN330BF | IN330BM |
| 30 | 2P 3W 💽 | \odot | 480V | HBL330R7W | HBL330P7W | HBL330C7W | HBL330B7W | BB2030N | BB201W BB301W | PC3430 | IN330BF | IN330BM |
| 30 | 3P 4W 💽 | \odot | 125/250V | HBL430R12W | HBL430P12W | HBL430C12W | HBL430B12W | BB2030N | BB201W BB301W | PC3430 | IN430CF | IN430CM |
| 20/20 | 3P 4W 🚱 | \odot | 380-415V | HBL430R6W | HBL430P6W | HBL430C6W | HBL430B6W | BB2030N | BB201W BB301W | PC3430 | IN430DF | IN430DM |
| 30/32 | 3P 4W 📀 | \odot | 3Ø 250V | HBL430R9W | HBL430P9W | HBL430C9W | HBL430B9W | BB2030N | BB201W BB301W | PC3430 | IN430DF | IN430DM |
| 30 | 3P 4W 💿 | \odot | 3Ø 480V | HBL430R7W | HBL430P7W | HBL430C7W | HBL430B7W | BB2030N | BB201W BB301W | PC3430 | IN430DF | IN430DM |
| 30 | 3P 4W 👀 | \odot | 3Ø 600V | HBL430R5W | HBL430P5W | HBL430C5W | HBL430B5W | BB2030N | BB201W BB301W | PC3430 | IN430DF | IN430DM |
| 00/05 | 4P 5W 🚱 | \odot | 220/380V 240/415V | HBL530R6W | HBL530P6W | HBL530C6W | HBL530B6W | BB2030N | BB201W BB301W | PC530 | IN530EF | IN530EM |
| 30/32 | 4P 5W 👀 | 0 | 3ØY 120/208V | HBL530R9W | HBL530P9W | HBL530C9W | HBL530B9W | BB2030N | BB201W BB301W | PC530 | IN530EF | IN530EM |
| 30 | 4P 5W 👀 | ③ | 3ØY 277/480V | HBL530R7W | HBL530P7W | HBL530C7W | HBL530B7W | BB2030N | BB201W BB301W | PC530 | IN530EF | IN530EM |
| 30 | 4P 5W 🚱 | | 3ØY 347/600V | HBL530R5W | HBL530P5W | HBL530C5W | HBL530B5W | BB2030N | BB201W BB301W | PC530 | IN530EF | IN530EM |
| 32 | 2P 3W 💿 | Ô | 100-130V | HBL332R4W [†] | HBL332P4W [†] | HBL332C4W [†] | HBL332B4W [†] | BB2030N | BB201W BB301W | PC3430 | IN330BF | IN330BM |
| 32 | 3P 4W 💿 | \odot | 380V 50Hz 440V 60Hz | HBL432R3W | HBL432P3W | HBL432C3W | HBL432B3W [†] | BB2030N | BB201W BB301W | PC3430 | IN430DF | IN430DM |
| Noto: S | | | for back boyos | | 16 and C 17 for | | | | | l | | |

Note: See page G-14 and G-15 for back boxes and accessories, G-16 and G-17 for product dimensions, G-18 and G-19 for product specifications and HP ratings. See page G-15 for closure caps, purchased separately. PC320, PC420, PC520, PC3430, PC530 are not UL or CSA. *These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

†Consult factory.

See 20, 30, 60 & 100 amp offering for additional dual rated devices for use at either 16A or 20A, 30A or 32A, 60A or 63A and 100A or 125A.

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| | | | | | | | | | | | | | TYPE 4X, 12 | |
|-------|---------|-------------------------------|-------------------------|----------------------|----|-------------|---------------|-------------|-------------|--------|---------------------------|-----------------|-----------------------|-----------------------|
| | | Rati | ng | | | | Watertigh | t Devices | | 4 | ccessorie | s | Replacem | ent Interiors |
| Amps | | Configura Recep./ Conn. | ation Plug/ Inlet | AC Voltag | je | Receptacle | Plug | Connector | Inlet | | k Boxes allic Metallic | Closure Caps | Recep./ Conn. | Plug/ Inlet |
| 60 | 2P 3W 🔇 | 3 | \odot | 125V | | HBL360R4W | HBL360P4W | HBL360C4W | HBL360B4W | BB60N | BB601W BB602W | PC60 | IN360AF | IN360AM |
| 60/63 | | • | | 220-240V 250V | | HBL360R6W | HBL360P6W | HBL360C6W | HBL360B6W | BB60N | BB601W BB602W | PC60 | IN360BF | IN360BM [†] |
| 60 | 2P 3W 🔇 | i | \odot | 480V | | HBL360R7W | HBL360P7W | HBL360C7W | HBL360B7W | BB60N | BB601W BB602W | PC60 | IN360BF | IN360BM [†] |
| 60 | 3P 4W 🔇 | ٢ | © | 125/250V | | HBL460R12W | HBL460P12W | HBL460C12W | HBL460B12W | BB60N | BB601W BB602W | PC60 | IN460CF | IN460CM |
| co/co | 3P 4W 🕷 | | \odot | 380-415V | | HBL460R6W | HBL460P6W | HBL460C6W | HBL460B6W | BB60N | BB601W BB602W | PC60 | IN460DFS | IN460DMS |
| 60/63 | 3P 4W 🔇 | | \odot | 3Ø 250V | | HBL460R9W | HBL460P9W | HBL460C9W | HBL460B9W | BB60N | BB601W BB602W | PC60 | IN460DF | IN460DM |
| 60 | 3P 4W 🔇 | | | 3Ø 480V | | HBL460R7W | HBL460P7W | HBL460C7W | HBL460B7W | BB60N | BB601W BB602W | PC60 | IN460DF | IN460DM |
| 60 | 3P 4W 🔇 | | | 3Ø 600V | | HBL460R5W | HBL460P5W | HBL460C5W | HBL460B5W | BB60N | BB601W BB602W | PC60 | IN460DF | IN460DM |
| co/co | 4P 5W 🔇 | | | 220/380V 240/415V | | HBL560R6W | HBL560P6W | HBL560C6W | HBL560B6W | BB60N | BB601W BB602W | PC60 | IN560EFS [†] | IN560EMS |
| 60/63 | 4P 5W 🔇 | | | 3ØY 120/208V | | HBL560R9W | HBL560P9W | HBL560C9W | HBL560B9W | BB60N | BB601W BB602W | PC60 | IN560EF | IN560EM [†] |
| 60 | 4P 5W 🔇 | | | 3ØY 277/480V | | HBL560R7W | HBL560P7W | HBL560C7W | HBL560B7W | BB60N | BB601W BB602W | PC60 | IN560EF | IN560EM [†] |
| 60 | 4P 5W 🔇 | | @ | 3ØY 347/600V | | HBL560R5W | HBL560P5W | HBL560C5W | HBL560B5W | BB60N | BB601W BB602W | PC60 | IN560EF | IN560EM [†] |
| 100 | 2P 3W 🕷 | | \odot | 125V | | HBL3100R4W | HBL3100P4W | HBL3100C4W | HBL3100B4W | BB100N | BB1001W BB1002W | PC100 | IN3100AF | IN3100AM |
| 100 | 2P 3W 🔇 | | \odot | 250V | | HBL3100R6W | HBL3100P6W | HBL3100C6W | HBL3100B6W | BB100N | BB1001W BB1002W | PC100 | IN3100BF | IN3100BM [†] |
| 100 | 2P 3W 🔇 | • | \odot | 480V | | HBL3100R7W | HBL3100P7W | HBL3100C7W | HBL3100B7W | BB100N | BB1001W BB1002W | PC100 | IN3100BF | IN3100BM [†] |
| 100 | 3P 4W 🕷 | | © • | 125/250V | | HBL4100R12W | / HBL4100P12W | HBL4100C12W | HBL4100B12W | BB100N | BB1001W BB1002W | PC100 | IN4100CF [†] | IN4100CM |
| 100/ | 3P 4W 🕷 | | \odot | 380-415V | | HBL4100R6W | HBL4100P6W | HBL4100C6W | HBL4100B6W | BB100N | BB1001W BB1002W | PC100 | IN4100DFS | IN4100DMS |
| 125 | 3P 4W 🕷 | | | 3Ø 250V | | HBL4100R9W | HBL4100P9W | HBL4100C9W | HBL4100B9W | BB100N | BB1001W BB1002W | PC100 | IN4100DF | IN4100DM |
| 100 | 3P 4W 🔇 | | | 3Ø 480V | | HBL4100R7W | HBL4100P7W | HBL4100C7W | HBL4100B7W | BB100N | BB1001W BB1002W | PC100 | IN4100DF | IN4100DM |
| 100 | 3P 4W 🔇 | | | 3Ø 600V | | HBL4100R5W | HBL4100P5W | HBL4100C5W | HBL4100B5W | BB100N | BB1001W BB1002W | PC100 | IN4100DF | IN4100DM |
| 100/ | 4P 5W 🔇 | | | 220/380V 240/415V | | HBL5100R6W | HBL5100P6W | HBL5100C6W | HBL5100B6W | BB100N | BB1001W BB1002W | PC100 | IN5100EFS | IN5100EMS |
| 125 | 4P 5W 🔇 | | | 3ØY 120/208V | | HBL5100R9W | HBL5100P9W** | HBL5100C9W | HBL5100B9W | BB100N | BB1001W BB1002W | PC100 | IN5100EF | IN5100EM |
| 100 | 4P 5W 🔇 | | @ 2 | 3ØY 277/480V | | HBL5100R7W | HBL5100P7W | HBL5100C7W | HBL5100B7W | BB100N | BB1001W BB1002W | PC100 | IN5100EF | IN5100EM |
| 100 | 4P 5W 🕷 | | @ | 3ØY 347/600V | | HBL5100R5W | HBL5100P5W | HBL5100C5W | HBL5100B5W | BB100N | BB1001W BB1002W | PC100 | IN5100EF | IN5100EM |

Note: See page G-14 and G-15 for back boxes and accessories, G-16 and G-17 for product dimensions, G-18 and G-19 for product specifications and HP ratings. For 60/63A and 100/125A application requiring a pilot pin add a "P" suffix to end of standard catalog number.

See page G-15 for closure caps, purchased separately. PC60 and PC100 are not UL or CSA.

*These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

**Short housing plug HBL5100P9WSH. IP22 suitability. †Consult factory.

TYPE 4X

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Corrosion Resistant Devices that Withstand the Most Abusive Environments

Hubbell offers a superior grade of 100A IEC Pin and Sleeve designed for use in the most demanding environments. These devices feature nickel plated solid brass pins for long life and reliable electrical contact in the most corrosive environments. They have a high visibility yellow supertough nylon housing. The heavy duty external cord clamps provide maximum cord retention to maintain secure terminations. The screws and fasteners are made from stainless steel.







- Meat Packing
- Construction



- Food Processing
- Factory

- Washdown
- Temporary Power

Water Treatment

- Agriculture
 - Outdoor Entertainment

Standard Service

| | | Ra | ting | | | Accessories | | | | |
|------|--------------|--------------------|------------|-----------------|------------|-------------|-----------|-------------|--------------------|---------|
| | Poles And | Configu Recep./ | | | | | | Back Boxes | | Closure |
| Amps | Wires | Conn. | Plug | AC Voltage | Receptacle | Plug | Connector | Non-Metalli | c Metallic* | Caps |
| 100 | 3P 4W | | \bigcirc | 125/250V | M4100R12 | M4100P12 | M4100C12 | BB100N | BB1001W BB1002W | PC100 |
| | 4P 5W | | | 3ØY 120/208V | M5100R9 | M5100P9 | M5100C9 | BB100N | BB1001W BB1002W | PC100 |
| | 4P 5W | | | 3ØY 277/480V | M5100R7 | M5100P7 | M5100C7 | BB100N | BB1001W BB1002W | PC100 |

"Reverse Service"

| | | Ra | ting | | | Watertigh | t Devices | Accessories | | |
|------|--------------|---------|---------|-----------------|-----------|-----------|-----------|-------------|--------------------|---------|
| | Poles And | Configu | iration | | | | 8) | Back | Boxes | Closure |
| Amps | Wires | Conn. | Inlet | AC Voltage | Inlet | Plug | Connector | Non-Metalli | c Metallic* | Caps |
| 100 | 3P 4W | | 0 | 125/250V | M4100B12R | - | M4100C12R | BB100N | BB1001W BB1002W | PC100 |
| | 4P 5W | | | 3ØY 120/208V | M5100B9R | - | M5100C9R | BB100N | BB1001W BB1002W | PC100 |
| | 4P 5W | | | 3ØY 277/480V | M5100B7R | - | M5100C7R | BB100N | BB1001W BB1002W | PC100 |

Note: *These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

See page AA-19 for corrosion resistant cord sets.

Data Center DC Rated Pin and Sleeve Devices

In today's environmentally conscious world, energy savings is a pinnacle part of going green. DC (Direct Current) is being used to reduce power consumption and decrease the amount of infrastructure needed to energize specific types of data center equipment. Electrical devices provide a means of connecting DC power.

Hubbell is the first manufacturer to introduce a series of IEC Pin and Sleeve devices configured for the UL1686 eight o'clock ground position for DC voltage (Disconnecting use only). Hubbell's IEC DC rated pin and sleeve line has been qualified by UL to the requirements of DC voltage. The thermoset polyester contact carrier provide high resistance to electrical tracking, it withstands higher temperatures for this type of demanding application. The solid one-piece pins are machined from solid brass for longer life and reliable electrical contact. In addition, the heavy-duty external cord grips provide maximum cord retention to maintain secure terminations. Finally, the super tough, color coded, non-conductive V-0 rated PBT housing is heavy duty for safety and protecting the internal components.

| | | R | ating | | | Watertight Devices | |
|------|--------------|--------------------|---------|------------|--------------|--------------------|---------------|
| | Poles And | Configu Recep./ | ration | | | | |
| Amps | Wires | Conn. | Plug | DC Voltage | Receptacle | Plug | Connector |
| 30 | 2P 3W | | \odot | 550V | HBL330R8WDC | HBL330P8V0DC | HBL330C8V0DC |
| 60 | 2P 3W | | \odot | 550V | HBL360R8WDC* | HBL360P8V0DC | HBL360C8V0DC |
| 100 | 2P 3W | | \odot | 550V | HBL3100R8WDC | HBL3100P8V0DC | HBL3100C8V0DC |
| | 4P 5W | | | 400V | HBL5100R8WDC | HBL5100P8V0DC | HBL5100C8V0DC |

Note: *Inlet available - HBL360B8WDC.

Dual Certified Pin and Sleeve Devices

Hubbell's dual certified pin and sleeve devices are ideal for the data center and high tech server industry. They are UL Listed to UL1682 for the North American market and are UL Classified Certified for the European and International market. Customers can use the same plug and connector for multiple electrical configurations. They reduce the number of SKU's end users have to use if they sell to both domestic and overseas customers. These devices are IP67 rated, RoHs compliant and showcase all the inherent safety benefits of their V-0 rated PBT housing and internal components.

| | | R | ating | | | Watertig | ht Devices | |
|-------|--------------|--------------------|---------|----------------------|-------------|-------------|-------------|-------------|
| | Poles And | Configu Recep./ | uration | | | | 0 | (|
| Amps | Wires | Conn. | Plug | AC Voltage | Receptacle | Plug | Connector | Inlet |
| 30/32 | 3P 4W | | \odot | 380-415V | HBL430R6V02 | HBL430P6V02 | HBL430C6V02 | HBL430B6V02 |
| | 4P 5W | | \odot | 200/346V 240/415V | HBL530R6V02 | HBL530P6V02 | HBL530C6V02 | HBL530B6V02 |
| 60/63 | 3P 4W | | \odot | 380-415V | HBL460R6V02 | HBL460P6V02 | HBL460C6V02 | HBL460B6V02 |
| | 4P 5W | | \odot | 200/346V 240/415V | HBL560R6V02 | HBL560P6V02 | HBL560C6V02 | HBL560B6V02 |





P69

TYPE 4X. 12

(VL) (SP

TYPE 4X, 12







BB60N



BB601W



FW6010055



FT202W



FW60100



HBL2030AP



AA2030PS

Back Boxes

Hubbell manufactures an extensive line of back boxes for use with IEC Pin and Sleeve devices. Each back box is designed to give the user the maximum amount of wiring room while achieving grounding to metallic conduit. Hubbell back boxes are available in non-metallic and cast metal versions.

Non-Metallic 15° Angle Back Box

| Description | NPT Hub Size* | Catalog Number |
|--|-----------------------------------|----------------|
| Back box for 16, 20, 30 and 32A devices. | 1" | BB2030N |
| Back box for 60 and 63A devices. | 11⁄4" | BB60N |
| Back box for 100 and 125A devices. | 1½" | BB100N |
| Note: *Hub is not included: order one of the following Baco® part numb | $ars: 1 in = 1704 \ 11/in = 1705$ | 11/2 in = 1706 |

These boxes meets IP67 requirement and Type 4X requirements when installed with a watertight conduit hub.

Metallic 15° Angle Back Box and Adapter**

| NPT Hub Size | Catalog Number |
|--------------|--------------------------------------|
| 3⁄4" | BB201W |
| 1" | BB301W |
| 1¼" | BB601W |
| 1½" | BB602W |
| 1½" | BB1001W |
| 2" | BB1002W |
| _ | AA6010015 |
| | 34" 1" 11/4" 11/2" 11/2" |

Note: **These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

Metallic 55° Angle Back Box and Adapter**

| Description | NPT Hub Size | Catalog Number |
|--|--------------|----------------|
| Feed-thru box back box and adapter for 16, 20, 30 and 32A devices. | 1" | AB203055 |
| Angle adapter only. | _ | AA203055 |
| Back box and adapter for 60, 63, 100 and 125A devices. | 11⁄2" | FW6010055 |
| Angle adapter only. | _ | AA6010055 |

Note: **These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

Metallic Feed-Thru Back Box**

| Description | NPT Hub Size | Catalog Number |
|---|--------------|----------------|
| Feed-thru box for 16, 20, 30 and 32A devices. | 3⁄4" | FT202W |
| | 1" | FT302W |

Note: **These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

Metallic Four-Way 15° Angle Back Box**

| Description | NPT Hub Size | Catalog Number |
|---|--------------|----------------|
| Four-way box for 60, 63, 100 and 125A devices. | 1½" | FW60100 |
| Note: **These bayes are post all unious an itable for IDE 4 requirement | | |

Note: **These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

Straight Wall Box Adapter

| Description | Catalog Number |
|---|----------------|
| Adapts 16, 20, 30 and 32A Watertight IEC Pin and Sleeve devices to 2-gang, device boxes and FD boxes. | HBL2030AP |

Angle Wall Box Adapter

| Description | Catalog Number | |
|---|----------------|--|
| Adapts 16, 20, 30 and 32A Watertight IEC Pin and Sleeve devices to standard wall boxes. | AA2030PS | |
| | | |

Note: Adapts 20 and 30A Watertight Pin and Sleeve receptacle to single, 2-gang standard wall box and 4 or 41% inch square for non-watertight applications.

Accessories

Closure Caps

Cap assemblies provide watertight sealing to a disconnected male IEC Pin and Sleeve plug or inlet. Manufactured of the same tough non-metallic material as the watertight IEC Pin and Sleeve devices for corrosion and abuse resistance.

| Description | Catalog Number |
|---|----------------|
| Fits all 16 and 20A, 3 wire plugs and inlets. | PC320 |
| Fits all 16 and 20A, 4 wire plugs and inlets. | PC420 |
| Fits all 16 and 20A, 5 wire plugs and inlets. | PC520 |
| Fits all 30 and 32A, 3 and 4 wire plugs and inlets. | PC3430 |
| Fits all 30 and 32A, 5 wire plugs and inlets. | PC530 |
| Fits all 60 and 63A plugs and inlets. | PC60 |
| Fits all 100 and 125A plugs and inlets. | PC100 |

Cover Assemblies

Replacement cover assemblies for use with watertight connector bodies and receptacles. Exact replacement cover assemblies required to maintain proper water ingress. They are not reverse compatible. Replacement covers are not interchangeable. Kit contains cover, arm assembly and installation tool.

| Description | IP67 Catalog Number | IP69k/4X Catalog Number |
|--|-------------------------|----------------------------------|
| Fits all 16 and 20A, 3 wire watertight female devices. Fits all 16 and 20A, 4 wire watertight female devices. Fits all 16 and 20A, 5 wire watertight female devices. | CA320 CA420 CA520 | HBLCA320 HBLCA420 HBLCA520 |
| Fits all 30 and 32A, 3 and 4 wire watertight female devices. Fits all 30 and 32A, 5 wire watertight female devices. | CA3430 CA530 | HBLCA3430 HBLCA530 |
| Fits all 60 and 63A watertight female devices. | CA60 | HBLCA60 |
| Fits all 100 and 125A watertight female devices. | CA100 | HBLCA100 |

Cord Clamp and Locking Ring

Replacement cord clamp and locking ring for use with IEC plugs, connectors and inlets.

| Description | Cord Clamp and Locking Ring | Locking Ring Only |
|---|--------------------------------|----------------------------|
| Fits all 16 and 20A, 3 wire plugs, connectors and inlets. Fits all 16 and 20A, 4 wire plugs, connectors and inlets. Fits all 16 and 20A, 5 wire plugs, connectors and inlets. | CC320 CC420 CC520† | LR320* LR420* LR520* |
| Fits all 30 and 32A, 3 and 4 wire plugs, connectors and inlets. Fits all 30 and 32A, 5 wire plugs, connectors and inlets. | CC3430 CC530† | LR3430* LR530* |
| Fits all 60 and 63A plugs, connectors and inlets. | CC60 | LR60* |
| Fits all 100 and 125A plugs, connectors and inlets. | CC100 | LR100* |

Note: *Locking Ring only for plugs and inlets.

†Consult factory.

Liquidtight Adapters

Machined aluminum or non-metallic adapters are available to provide a means for attaching flexible liquidtight metal conduit to rear of a Hubbell Pin and Sleeve plug or connector. To install, remove cord grip and two gland cap screws. Use screws to attach adapter. Kellems[®] liquidtight conduit connectors are available to control arc of bend and to prevent conduit pull-out where vibration, motion or strain is present. These grips interface directly with Hubbell's liquidtight adapters and are available in a wide variety of NPT sizes and configurations. Consult your local code grounding requirements before using liquidtight adapters.

| Rating of Hubbell | Liquidtight | Liquidtight Adapters | | Optional Kellems |
|---|--------------|----------------------|--------------|--------------------------|
| Pin and Sleeve Device | Conduit Size | Aluminum | Non-Metallic | Liquidtight Conduit Grip |
| 16 and 20 Amp | 1⁄2" NPT | SAA12 | _ | 074093402 |
| 3 and 4 Wire | 34" NPT | SAA34 | _ | 074093403 |
| 16 and 20 Amp 5 wire and 30 and 32 Amp 3 and 4 wire | 1/2" NPT | SAB12 | _ | 074093402 |
| | 34" NPT | SAB34 | _ | 074093403 |
| | 1" NPT | SAB100 | _ | 074093404 |
| 30 and 32 Amp 5 wire and 60 and 63 Amp (all) | 1⁄2" NPT | SAC12 | SAC12NM | 074093402 |
| | 34" NPT | SAC34 | SAC34NM | 074093403 |
| | 1" NPT | SAC100 | SAC100NM | 074093404 |
| | 11/4" NPT | SAC125 | _ | 074093405 |
| 100 and 125 Amp (all) | 11/4" NPT | SAD125 | _ | 074093405 |
| | 11/2" NPT | SAD150 | _ | 074093406 |



PC3430







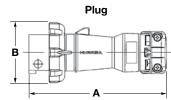


LR3430

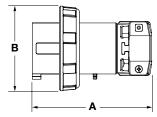




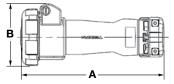
Plug Dimensions

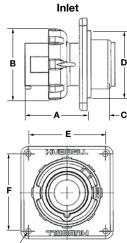


Short Housing Plug



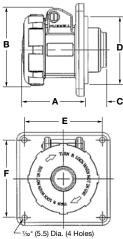
Connector Body





∠ 7/32" (5.5) Dia. (4 Holes)





| Туре | A | В | Cord Grip Range |
|---|----------------|-----------------|---------------------------|
| HBL320P | 6.61" (167.8) | 2.87" (73.0) | .330"830" (8.4-21.1) |
| HBL420P | 7.00" (177.8) | 3.19" (81.0) | .330"830" (8.4-21.1) |
| HBL520P | 7.65" (194.3) | 3.50" (89.0) | .330"830" (8.4-21.1) |
| HBL330P | 8.05" (204.5) | 3.74" (95.0) | .375"-1.250" (9.5-31.8) |
| HBL430P | 8.05" (204.5) | 3.74" (95.0) | .375"-1.250" (9.5-31.8) |
| HBL530P | 8.54" (216.9) | 4.02" (102.0) | .500"-1.450" (12.7-36.8) |
| HBL360P, HBL460P, HBL560P | 10.15" (257.8) | 4.49" (114.0) | .500"-1.450" (12.7-36.8) |
| HBL3100P, HBL4100P, M4100P, HBL5100P, M5100P | 12.63" (320.8) |) 4.92" (125.0) | 1.065"-1.940" (27.1-49.3) |

Short Housing Plug Dimensions

| Туре | А | В | Cord Grip Range |
|--------------|--------------|------------------|---------------------------|
| HBL5100P9WSH | 8.30" (210.8 | 2) 4.92" (125.0) | 1.065"-1.940" (27.1-49.3) |

Connector Body Dimensions

| Туре | А | В | Cord Grip Range |
|---|---------------|--------------|---------------------------|
| HBL320C | 7.21 (183.1) | 3.10 (78.9) | .330"830" (8.4-21.1) |
| HBL420C | 7.57 (192.3) | 3.43 (87.2) | .330"830" (8.4-21.1) |
| HBL520C | 8.24 (209.2) | 3.71 (94.3) | .330"830" (8.4-21.1) |
| HBL330C | 8.24 (209.2) | 3.71 (94.3) | .375"-1.250" (9.5-31.8) |
| HBL430C | 8.69 (220.6) | 3.74 (95.0) | .375"-1.250" (9.5-31.8) |
| HBL530C | 9.33 (237.0) | 4.02 (102.1) | .500"-1.450" (12.7-36.8) |
| HBL360C, HBL460C, HBL560C | 10.75 (272.9) | 4.39 (111.5) | .500"-1.450" (12.7-36.8) |
| HBL3100C, HBL4100C, M4100C, HBL5100C, M5100C | 13.14 (333.8) | 5.06 (128.5) | 1.065"-1.940" (27.1-49.3) |

Inlet Dimensions

| Туре | А | В | С | D | E | F |
|--|---------------|--------------|--------------|---------------|---------------|---------------|
| HBL320B | 2.54" (64.5) | 1.85" (47.0) | 1.14" (29.0) | 2.72" (69.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL420B | 2.54" (64.5) | 2.11" (53.6) | 1.14" (29.0) | 2.72" (69.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL520B | 2.54" (64.5) | 2.41" (61.2) | 1.14" (29.0) | 2.72" (69.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL330B | 2.99" (76.0) | 2.49" (63.2) | 1.04" (26.5) | 2.72" (69.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL430B | 2.99" (76.0) | 2.49" (63.2) | 1.04" (26.5) | 2.72" (69.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL530B | 2.99" (76.0) | 2.75" (69.9) | 1.04" (26.5) | 2.80" (71.0) | 3.75" (95.3) | 3.13" (79.5) |
| HBL360B, HBL460B, HBL560B | 4.04" (102.6) | 2.97" (75.5) | 1.18" (30.0) | 3.46" (88.0) | 4.50" (114.3) | 3.88" (98.5) |
| HBL3100B, HBL4100B, M4100B, HBL5100B, M5100B | 4.53" (115) | 3.44" (87.5) | 1.95" (49.5) | 3.94" (100.0) | 5.50" (139.7) | 4.88" (124.0) |

Receptacle Dimensions

| А | В | С | D | E | F |
|-------------|---|---|--|---|---|
| 2.47 (62.8) | 3.10 (78.9) | .91 (23.0) | 2.71 (68.9) | 3.75 (95.3) | 3.13 (79.4) |
| 2.46 (62.4) | 3.43 (87.2) | .91 (23.0) | 2.71 (68.9) | 3.75 (95.3) | 3.13 (79.4) |
| 2.50 (63.4) | 3.71 (94.3) | .90 (22.9) | 2.71 (68.9) | 3.75 (95.3) | 3.12 (79.3) |
| 2.74 (69.7) | 3.74 (95.0) | 1.04 (26.5) | 2.71 (68.9) | 3.75 (95.3) SQ | 4X 3.13 (79.4) SQ |
| 2.74 (69.7) | 3.74 (95.0) | 1.04 (26.5) | 2.71 (68.9) | 3.75 (95.3) SQ | 4X 3.13 (79.4) SQ |
| 2.75 (69.7) | 4.02 (102.1) | 1.04 (26.5) | 2.83 (71.9) | 3.75 (95.3) SQ | 3.13 (79.4) SQ |
| 3.67 (93.2) | 4.39 (111.5) | 1.57 (40.0) | 3.45 (87.7) | 4.50 (114.3) SG | 3.88 (98.4) SQ |
| 3.78 (96.1) | 5.07 (128.7) | 2.30 (58.5) | 3.93 (99.8) | 4.87 (123.7) SC | 2 5.50 (139.7) SQ |
| | 2.47 (62.8) 2.46 (62.4) 2.50 (63.4) 2.74 (69.7) 2.74 (69.7) 2.75 (69.7) 3.67 (93.2) | 2.47 (62.8) 3.10 (78.9) 2.46 (62.4) 3.43 (87.2) 2.50 (63.4) 3.71 (94.3) 2.74 (69.7) 3.74 (95.0) 2.74 (69.7) 3.74 (95.0) 2.75 (69.7) 4.02 (102.1) 3.67 (93.2) 4.39 (111.5) | 2.47 (62.8) 3.10 (78.9) .91 (23.0) 2.46 (62.4) 3.43 (87.2) .91 (23.0) 2.50 (63.4) 3.71 (94.3) .90 (22.9) 2.74 (69.7) 3.74 (95.0) 1.04 (26.5) 2.74 (69.7) 3.74 (95.0) 1.04 (26.5) 2.75 (69.7) 4.02 (102.1) 1.04 (26.5) 3.67 (93.2) 4.39 (111.5) 1.57 (40.0) | 2.47 (62.8)3.10 (78.9).91 (23.0)2.71 (68.9)2.46 (62.4)3.43 (87.2).91 (23.0)2.71 (68.9)2.50 (63.4)3.71 (94.3).90 (22.9)2.71 (68.9)2.74 (69.7)3.74 (95.0)1.04 (26.5)2.71 (68.9)2.75 (69.7)4.02 (102.1)1.04 (26.5)2.83 (71.9)3.67 (93.2)4.39 (111.5)1.57 (40.0)3.45 (87.7) | 2.47 (62.8) 3.10 (78.9) .91 (23.0) 2.71 (68.9) 3.75 (95.3) 2.46 (62.4) 3.43 (87.2) .91 (23.0) 2.71 (68.9) 3.75 (95.3) 2.50 (63.4) 3.71 (94.3) .90 (22.9) 2.71 (68.9) 3.75 (95.3) 2.74 (69.7) 3.74 (95.0) 1.04 (26.5) 2.71 (68.9) 3.75 (95.3) SQ 2.74 (69.7) 3.74 (95.0) 1.04 (26.5) 2.71 (68.9) 3.75 (95.3) SQ 2.75 (69.7) 4.02 (102.1) 1.04 (26.5) 2.83 (71.9) 3.75 (95.3) SQ 3.67 (93.2) 4.39 (111.5) 1.57 (40.0) 3.45 (87.7) 4.50 (114.3) SQ |

Note: 20, 30, 60 and 100A devices are dimensionally equivalent to 16, 32, 63 and 125A devices, respectively.

Non-Metallic 15° Angle Back Box

| Description | NPT Hub Size | A Inch (mm) | B Inch (mm) | C Inch (mm) | D Inch (mm) | E Inch (mm) | F Inch (mm) | Cubic Inch Capacity | Catalog Number |
|---|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|-------------------|
| Back box for 16, 20, 30 & 32A devices. | 1" | 5.67" (144.0) | 4.44" (112.8) | 4.05" (102.9) | 3.91" (99.3) | 2.35" (59.7) | 4.92" (125.0) | 30.00" | BB2030N |
| Back box for 60 & 63A devices. | 1¼" | 7.76" (197.0) | 5.16" (131.0) | 5.87" (149.0) | 4.72" (120.0) | 2.99" (76.0) | 6.94" (176.0) | 70.00" | BB60N |
| Back box for 100 & 125A devices. | 11⁄2" | 8.21" (209.0) | 6.23" (158.0) | 6.31" (160.3) | 5.71" (145.0) | 3.99" (101.0) | 7.41" (188.0) | 120.00" | BB100N |

Non-Metallic Angle Box

Note: *Hub is not included; order one of the following Raco[®] part numbers: 1 inch = 1704, 1¼ inch = 1705, 1½ inch = 1706. These boxes meet IP67 requirement and Type 4X requirements when installed with a watertight conduit hub.

Metallic 15° Angle Back Box

| Description | NPT Hub Size | A Inch (mm) | B Inch (mm) | C Inch (mm) | D Inch (mm) | E Inch (mm) | F Inch (mm) | Cubic Inch Capacity | Catalog Number |
|---|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|-------------------|
| Back box for 16, 20, 30 & 32A devices. | 3⁄4" | 5.12" (130.2) | 4.00" (101.6) | 4.19" (106.4) | 3.75" (95.3) | 3.00" (76.2) | 4.00" (101.6) | 30.00" | BB201W |
| Back box for 16, 20, 30 & 32A devices. | 1" | 5.12" (130.2) | 4.00" (101.6) | 4.19" (106.4) | 3.75" (95.3) | 3.00" (76.2) | 4.00" (101.6) | 30.00" | BB301W |
| Back box for 60 & 63A devices. | 1¼" | 7.25" (184.2) | 5.25" (133.4) | 6.00" (152.4) | 4.50" (114.3) | 3.75" (95.3) | 6.19" (157.2) | 80.00" | BB601W |
| Back box for 60 & 63A devices. | 1½" | 7.25" (184.2) | 5.25" (133.4) | 6.00" (152.4) | 4.50" (114.3) | 3.75" (95.3) | 6.19" (157.2) | 80.00" | BB602W |
| Back box for 100 &125A devices. | 1½" | 8.12" (206.4) | 6.75" (171.5) | 6.88" (174.6) | 5.50" (139.7) | 4.75" (120.7) | 6.94" (176.2) | 130.00" | BB1001W |
| Back box for 100 & 125A devices. | 2" | 8.12" (206.4) | 6.75" (171.5) | 6.88" (174.6) | 5.50" (139.7) | 4.75" (120.7) | 6.94" (176.2) | 130.00" | BB1002W |

Metallic 55° Angle Back Box and Adapter

| v | | | | | | | | | |
|---|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|-------------------|
| Description | NPT Hub Size | A Inch (mm) | B Inch (mm) | C Inch (mm) | D Inch (mm) | E Inch (mm) | F Inch (mm) | Cubic Inch Capacity | Catalog Number |
| Feed-thru box and angle adapter for 16, 20, 30 & 32A devices. | 1" | 6.80" (172.4) | 6.60" (167.0) | 5.63" (142.9) | 4.50" (114.3) | 3.74" (95.0) | _ | 42.27" | AB203055 |
| Angle adapter for 16, 20, 30 & 32A devices. | - | 4.89" (124.3) | 3.33" (84.6) | 4.29" (109.0) | 3.75" (95.2) | 2.50" (63.5) | _ | 25.00" | AA203055 |
| Back box and angle adapter for 60, 63, 100 & 125A devices. | 1½" | 8.50" (215.9) | 8.00" (202.9) | 7.75" (196.8) | 6.90" (174.8) | 6.00" (152.4) | _ | 100.00" | FW6010055 |
| Angle adapter for 60, 63, 100 & 125A devices. | _ | 6.75" (171.4) | 4.48" (113.7) | 6.00" (152.4) | 6.75" (171.4) | 6.00" (152.4) | _ | 79.00" | AA6010055 |

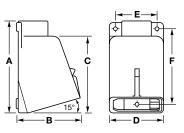
Metallic Feed-Thru Back Box

| Description | NPT Hub Size | A Inch (mm) | B Inch (mm) | C Inch (mm) | D Inch (mm) | E Inch (mm) | F Inch (mm) | Cubic Inch Capacity | Catalog Number |
|--|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|-------------------|
| Feed-thru box for 16, 20, 30 & 32A devices. | 3⁄4" | 8.25" (209.6) | 3.06" (77.8) | 7.14" (181.4) | 4.50" (114.3) | 3.75" (95.3) | 3.13" (79.5) | 48.00" | FT202W |
| Feed-thru box for 16, 20, 30 & 32A devices. | 1" | 8.25" (209.6) | 3.06" (77.8) | 7.14" (181.4) | 4.50" (114.3) | 3.75" (95.3) | 3.13" (79.5) | 48.00" | FT302W |

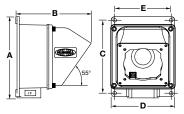
Metallic Four-Way 15° Angle Back Box

| | | <u> </u> | | - | | | | | |
|--|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------------|-------------------|
| Description | NPT Hub Size | A Inch (mm) | B Inch (mm) | C Inch (mm) | D Inch (mm) | E Inch (mm) | F Inch (mm) | Cubic Inch Capacity | Catalog Number |
| Four-way box for 60, 63, 100 & 125A devices. | .,= | 8.75" (222.3) | 9.75" (247.7) | 7.75" (196.9) | 6.75" (171.5) | 6.00" (152.4) | - | 210.00" | FW60100 |

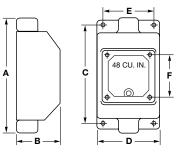
Note: These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint. These boxes withstand a 500-hour salt spray test as well as UL rain tight and external icing test.



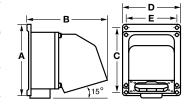
Metallic 15° Angle Box



Metallic 55° Angle Box



Metallic Feed-Thru Box



Metallic Four-Way Angle Box

Watertight Materials

| Part | Material | Listed to standard UL1682/CSA C22.2 |
|-----------------------|--|---|
| Plug | | No. 182.1-02, Plugs, Receptacles and |
| Housing | PBT | cable connectors of the Pin and Sleeve |
| Locking Ring | PBT | Type. |
| Sealing Gasket | Solid Neoprene | 1990. |
| Cord Clamp | PBT | UL Classified to IEC Standards 60309- |
| Gland Cap | PBT | 1 (Plugs, Socket Outlets, and Couplers |
| Gland | Solid Neoprene | for Industrial Purposes) for Series I |
| Cord Clamp Screws | Stainless Steel (300 Series) | (European) rated voltages and services. |
| Clamp Nut | Nickel-Plated Brass | (European) rated voltages and services. |
| Gland Clamp Screws | Stainless Steel (300 Series) | |
| Contact Carrier | High-Impact Thermoset | When used with cord, these devices |
| Retainer | High-Impact Thermoset | require no further investigation by UL |
| Ground, Phase Pins | Proce (M. Cerice - Niekel plated broce) | for equipment Classification to IEC 435 |
| Terminal Screws | Brass (M-Series - Nickel-plated brass) Stainless Steel (300 Series) | or IEC 380. |
| | | |
| Assembly Screws | Stainless Steel (300 Series) | |
| Connector Body | | |
| Housing | PBT | |
| Cord Clamps | PBT | |
| Glands | Solid Neoprene | |
| Cover Arms | PBT | |
| Arm Springs | Stainless Steel (17-7 type) | |
| Covers | PBT | |
| Cover Screw | Nickel-plated brass | |
| Gaskets | Solid Neoprene | |
| Contact Carrier | High-Impact Thermoset | |
| Retainer | High-Impact Thermoset | |
| Phase, Ground Sleeves | Brass | |
| Sleeve Spring | 20A and 30A Stainless Steel (300 Series); others are Beryllium Copper | |
| | multi-contact inserts with silver plating | |
| Terminal Screws | Stainless Steel (300 Series) | |
| Assembly Screws | Stainless Steel (300 Series) | |
| Inlet | | |
| Housing | PBT | |
| Locking Ring | PBT | |
| Mounting Flange | PBT | |
| Mounting Screws | Stainless Steel (300 Series) | |
| Contact Carrier | High-Impact Thermoset | |
| Retainer | High-Impact Thermoset | |
| Ground, Phase Pins | Brass (M-Series - Nickel-plated brass) | |
| Terminal Screws | Stainless Steel (300 Series) | |
| Assembly Screws (2) | Stainless Steel (300 Series) | |
| Gaskets | Solid Neoprene | |
| Receptacle | | |
| · · · | | |
| Housing | PBT | |
| Mounting Flange | PBT | |
| Arm Spring | Stainless Steel (17-7 type) | |
| Cover Arm | PBT | |
| Cover | PBT | |
| Cover Screw | Nickel-plated brass | |
| Gaskets | Solid Neoprene | |
| Mounting Screws | Stainless Steel (300 Series) | |
| Terminal Screws | Stainless Steel (300 Series) | |
| Phase, Ground Sleeves | Brass | |
| Sleeve Spring | 20A and 30A Stainless Steel (300 Series); others are Beryllium Copper multi- | contact inserts with silver plating |
| | | |

| Specifications | |
|-------------------------------|--|
| Typical Specification | |
| Manufacturer's Identification | Hubbell HBL520P9W |
| Description | Plug, Power Supply |
| Туре | 3 Pole + Neutral + Earth |
| Rating | 20A, 120/208V AC, 3 Phase WYE |
| Configuration | UL 1686 C2, IEC 60309-2, Clock Position 9, Watertight |
| Certification | UL Listed, File E146032 Receptacles and Inlets, E146033 Plugs and Connectors, |
| | UL Standard UL1682 and UL 1686C2, CSA Certified File LR280C for Plugs, |
| | Connectors Inlets and LR285C for Receptacle CSA StandardC22.2 No. 182.1, UL Classified to IEC 60309-1 IEC 60309-2 |

PBT is a trademark of SABIC Innovative Plastics, acquired from General Electric Company.

HUBBELL[®] Wiring Device-Kellems

| Performance | |
|--|--|
| Electrical | |
| Dielectric Withstand Voltage | 3000V AC. |
| Max. Working Voltage | 600V RMS (i.e., minimum creepage distance 10 millimeters, minimum clearance 8 millimeters, per IEC 60309-1 for devices rated over 500V). |
| Current Interrupting | Certified for current interrupting at full rated current (Except DC rated devices). |
| Temperature Rise | Max. 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%. |
| Endurance | 5,000 connect and disconnect cycles with load for 16A and 20A, 1,000 cycles with load and 1,000 cycles without load for 30A, 32A, 60A and 63A, and 250 cycles with load and 250 cycles without load for 100A and 125A. |
| Mechanical | |
| Impact Resistance | Per CSA C22.2 No. 182.1 / UL1682. |
| Cord Grip Cable Retention | Per CSA C22.2 No. 182.1 / UL1682. |
| Cord Accommodation | Round portable service cords of diameters commensurate with the device rating as defined in UL Standard 62, |
| | CSA C22.2 No. 49 and the harmonized <har> European Standards.</har> |
| Terminal Identification | Terminals identified in accordance with North American and IEC conventions. |
| Product Identification | Identification and ratings are a permanent part of the device housing. |
| Environmental | |
| Moisture Resistance | Watertight per IEC 60309-1. |
| Ingress Protection | TYPE 4X, 12 and IP69K. |
| Flammability | V.O. |
| Operating Temperatures | Maximum Continuous 75°C; Minimum - 40°C without impact. |
| Materials | |
| Housings | PBT. |
| All Other Materials | Resistant to corrosion and chemical attack. |
| Note: Specification sheets for all oth | er Pin and Sleeve catalog numbers are available upon request. |

Horsepower Ratings for Hubbell IEC Pin and Sleeve Devices*

| Single Phase 3-Phase | | | | | | | | | | | | |
|----------------------|-------|------------------|-------|----------------|--------|---|----------|--------|------------------------------|--------|------------------------|-----------|
| | Wire | | | | HP | | | Wire | | | | HP |
| <u>'</u> | Count | Voltage | Clock | Catalog Number | Rating | - | Amps | | Voltage | Clock | Catalog Number | Ratin |
| 20 | 3 | 125V | 4 | HBL320x4W | 1 | | 20 | 4 | 3Ø 250V | 9 | HBL420x9W | 5 10 |
| 20 | 3 | 250V | 6 | HBL320x6W | 2 | | 20 20 | 4 | 3Ø 480V 3Ø 600V | 7 | HBL420x7W HBL420x5W | 10 |
| 20 | 3 | 480V | 7 | HBL320x7W | 5 | | 20 | 4 | 3Ø 380-415V | 6 | HBL420x5W | 7.5 |
| 20 | 4 | 125/250 (208L-L) | 12 | HBL420x12W | 2 | | 20 | 4 5 | 3ØY 120/208V | 9 | HBL520x9W | 7.5 |
| 20 | 4 | 125/250 (250L-L) | 12 | HBL420x12W | 2 | | 20 | 5 | 3ØY 277/480V | 7 | HBL520x7W | 10 |
| 20 | 4 | 125/250 (125L-N) | 12 | HBL420x12W | 1 | 1 | 20 | 5 | 3ØY 347/600V | 5 | HBL520x5W | 10 |
| 30 | 3 | 125V | 4 | HBL330x4W | 2 | 1 | 20 | 5 | 3Ø 240/415V | 6 | HBL520x6W | 5 |
| 30 | 3 | 250V | 6 | HBL330x6W | 3 | | 30 | 4 | 3Ø 250V | 9 | HBL430x9W | 7.5 |
| 30 | 3 | 480V | 7 | HBL330x7W | 7.5 | | 30 | 4 | 3Ø 480V | 7 | HBL430x7W | 15 |
| 30 | 3 | 550VDC | 8 | HBL330X8 | N/A | | 30 | 4 | 3Ø 600V | 5 | HBL430x5W | 20 |
| 30 | 4 | 125/250 (208L-L) | 12 | HBL430x12W | 3 | | 30 | 5 | 3ØY 120/208V | 9 | HBL530x9W | 5 |
| 30 | 4 | (/ | 12 | HBL430x12W | 3 | | 30 | 5 | 3ØY 277/480V | 7 | HBL530x7W | 15 |
| | | 125/250 (250L-L) | | | | | 30 | 5 | 3ØY 347/600V | 5 | HBL530x5W | 20 |
| 30 | 4 | 125/250 (125L-N) | 12 | HBL430x12W | 2 | - | 30 | 4 | 3Ø 380/415V | 6 | HBL430x6W | 10 |
| 60 | 3 | 125V | 4 | HBL360x4W | 2 | | 30 | 5 | 3Ø 200/346-240/415 | 6 | HBL530x6W | 10 |
| 60 | 3 | 250V | 6 | HBL360x6W | 3 | | 60 | 4 | 3Ø 250V | 9 | HBL460x9W | 7.5 |
| 60 | 3 | 480V | 7 | HBL360x7W | 7.5 | | 60 | 4 | 3Ø 480V | 7 | HBL460x7W | 20 |
| 60 | 3 | 250VDC | 3 | HBL360x3W | N/A | | 60 | 4 | 3Ø 600V | 5 | HBL460x5W | 25 |
| 60 | 3 | 550VDC | 8 | HBL360x8W | N/A | | 60 60 | 4 | 3Ø 380-415VAC | 6 9 | HBL460x6W | 10 7.5 |
| 60 | 4 | 125/250 (208L-L) | 12 | HBL460x12W | 3 | | 60 | 5 | 3ØY 120/208V 3ØY 277/480V | 9 | HBL560x9W HBL560x7W | 20 |
| 60 | 4 | 125/250 (250L-L) | 12 | HBL460x12W | 3 | 1 | 60 | 5 | 3ØY 347/600V | 5 | HBL560x5W | 20 |
| 60 | 4 | 125/250 (125L-N) | 12 | HBL460x12W | 2 | 1 | 60 | 5 | 3Ø 200/346-240/415 | 6 | HBL560x6W | 10 |
| 100 | 3 | 125V | 4 | HBL3100x4W | 5 | 1 | 100 | 4 | 3Ø 250V | 9 | HBL4100x9W | 15 |
| 100 | 3 | 250V | 6 | HBL3100x6W | 15 | | 100 | 4 | 3Ø 480V | 7 | HBL4100x7W | 40 |
| 100 | 3 | 480V | 7 | HBL3100x7W | 30 | | 100 | 4 | 3Ø 600V | 5 | HBL4100x5W | 50 |
| 100 | 3 | 250VDC | 3 | HBL3100x3W | N/A | | 100 | 4 | 3Ø 380-415V | 6 | HBL4100x6W | 30 |
| 100 | 3 | 550VDC | 8 | HBL3100x8W | N/A | | 100 | 5 | 3ØY 200/346-240/415V | 6 | HBL5100x6W | 30 |
| | - | | - | | | | 100 | 5 | 400VDC | 8 | HBL5100x8W | N/A |
| 100 | 4 | 125/250 (208L-L) | 12 | HBL4100x12W | 10 | | 100 | 5 | 3ØY 120/208V | 9 | HBL5100x9W | 15 |
| 100 | 4 | 125/250 (250L-L) | 12 | HBL4100x12W | 15 | | 100 | 5 | 3ØY 277/480V | 7 | HBL5100x7W | 40 |
| 100 | 4 | 125/250 (125L-N) | 12 | HBL4100x12W | 5 | | 100 | 5 | 3ØY 347/600V | 5 | HBL5100x5W | 50 |

Note: *Horsepower Ratings are NOT standardized amongst different Pin and Sleeve manufacturers.

Features and Benefits

IP67 SUITABILITY

Unfused Circuit-Lock[®] Pin and Sleeve Mechanical Interlocks

The National Electrical Code (NEC[®]) requires a separate disconnect means within sight of all motor loads. The NEC requires the disconnecting means in a motor-circuit be listed as "Suitable as Motor Disconnect" if the motor is rated greater than 2 HP.

Hubbell's revolutionary Circuit-Lock interlock incorporates the disconnect switch and receptacle in one compact, non-metallic and economical unit. Removing the plug and locking it out provides a visual means of verifying equipment has been disconnected. All Circuit-Lock mechanical interlocks can be locked out as a method of compliance with the OSHA Lockout/Tagout regulation.

The switch cannot be turned ON until the plug is completely engaged, and the plug cannot be removed until the switch is turned OFF. At the same time, it eliminates the possibility of making or breaking the circuit under load or making a casual or "lazy" connection. The non-metallic enclosure can be connected to the metallic conduit and not interfere with the ground continuity.

In addition, these horsepower rated units are durable, watertight and easy to install. And they are compatible with IEC 60309-2 plugs. These Circuit-Lock units are available in 20, 30, 60 and 100A models, and in 3, 4 and 5 wire configurations that are designed to the IEC 60309-1 and 60309-2 standards.

Hubbell's Circuit-Lock Mechanical Interlocks are also available in "Reverse Service" versions. These units incorporate the disconnect switch and reverse service receptacle (inlet) in one compact, non-metallic and economical unit. These units are available in 30, 60 and 100A models, 4 wire configurations.





Housing Design

- Insulated non-metallic housing, super tough, non-conductive and chemical resistant for heavy duty industrial environments
- IEC pin and sleeve devices are color coded by voltage for easy identification
- Self-closing gasketed cover, detents into position to fully close automatically



Safety

- Lockable handle to meet OSHA
 Lockout/Tagout regulations
- Two-stage interlocking mechanism to help defeat tampering
- Watertight conduit hub and grounding plate for use on metallic conduit (IP67 suitability)



Interior Design

- Large gears enclosed in a gear box assembled on one plane to eliminate possible gear jumping
- Horsepower rated disconnect switch handles large motor loads
- DIN rail mounted switch for easy installation and replacement



Replaceable spring-

- Replaceable spring-loaded liftcover with gasket for a watertight seal
- Pre-wired IEC Pin and Sleeve receptacle
- Reverse service has dependable solid brass pins for longer life and reliable electrical contact



Identification

Color coded rating pad and receptacle mount to signify voltage



Installation

- Comes with brass inserts and stainless steel screws for higher torque and better sealing
- Three molded-in conduit drill points are located on top, bottom and back surface of enclosure
- Adjustable mounting feet are ductile to allow mounting on irregular surfaces

NEC® is a registered trademark of the National Fire Protection Association (NFPA).



HUBBELL[®] Wiring Device-Kellems

(UL) Enclosure Type 4X, 12

| Rating Unique Clinical-Lack* Devicer Revres Service Prime Configuration AC Voltage Mathing Plug Mathing Plug Mechanical Interfock Mathing Plug 20 3P dW © © 120/207V HBL420M172W HBL420P12W - - 3P dW © © 30/207V HBL420M172W HBL420P3W - - 3P dW © © 30/207V HBL420M17W HBL420P3W - - 3P dW © © 30/207V HBL420M17W HBL420P3W - - 3P dW © © 30/207V HBL330M16W HBL330P3W - - 3P dW © © 30/207V HBL330M17W HBL330P3W - - 3P dW © © 30/207V HBL330M17W HBL330P3W - - 3P dW © © 30/207V HBL330M17W HBL330P3W - - 3P dW © © 30/ | | | | | | | | IP67 Er | iclosure Type 4X, 12 |
|--|-----|-------|---------|---------|--------------|----------------|-----------------------------|----------------------|----------------------|
| Ann Configuration AC Votings Mechanical Interfack Matting Plug Mechanical Interfack Matting Plug 3P 4W S S 120/24/W HBL420M112W HBL420P12W - - 3P 4W S S 30/24/W HBL420M17W HBL420P5W - - 3P 4W S S 30/49/W HBL420M17W HBL420P5W - - 3P 4W S S 30/49/W HBL320M17W HBL320P5W - - 2P 3W S S 30/40/W HBL330M17W HBL330P7W - - 2P 3W S S 30/240/W HBL430M17W HBL330M17W HBL330M1 | | | | Rating | | Unfused Circui | t-Lock [®] Devices | Reverse | e Service |
| 20 3P 4W © 1'00240V I HBL420N112W HBL420P12W - - 3P 4W © 3D 240V I HBL420N19W HBL420P9W - - - 3P 4W © 3D 240V I HBL420N17W HBL420P7W - - 3P 4W © 3D 240V I HBL420M17W HBL420P7W - - 3P 4W © I 3D 240V I HBL430M17W HBL420P7W - - 2P 3W © I IZOV I HBL430M17W HBL330P7W - - 3P 4W © I IBL30M17W HBL30P12W - - - 3P 4W © III 02/07V I HBL430M17W HBL30P12W - - - 3P 4W © III 02/07V I HBL30P12W - - - - - - - - - - - - - </th <th></th> <th>and</th> <th></th> <th></th> <th></th> <th></th> <th>1</th> <th></th> <th></th> | | and | | | | | 1 | | |
| BP AV S 302 240V HBL420MI9W HBL420P9W - - 3P AV S 302 480V HBL420MI7W HBL420P7W - - 3P AV S 302 480V HBL420MI5W HBL420P5W - - 3P AV S 302 480V HBL420MI5W HBL420P5W - - 3P AV S 302 480V HBL430MI6W HBL330P4W - - 2P 3W S 24/V HBL330MI6W HBL330P5W - - 3P AV S 120/P4/V HBL330MI7W HBL330P5W HBL300MI7W HBL300MI7W 3P AV S 302 400V HBL430MI9W HBL430P7W HBL430MI5W | | | · · · · | | | - | | Mechanical Interlock | Mating Plug |
| BP AW BO BBL420MI7W HBL420P7W - - 3P AW BO BBL420MI5W HBL420P5W - - 2P AW C BP AW C BL420MI5W HBL420P5W - - 2P AW C D 120V HBL430MI5W HBL330P4W - - 2P AW C D 2P/V HBL430MI7W HBL330P4W - - 2P AW C D 44/V HBL430MI7W HBL330P7W - - 3P AW C S 44/V HBL430MI7W HBL430P7W HBL430MI9W HBL430MI9W HBL430MI7W HBL430MI7W HBL430MI7W HBL430MI7W HBL430MI5W HBL430MI5W HBL430MI5W HBL430MI5W HBL430MI5W HBL430MI5W HBL430MI5W HBL430MI5W HBL430MI7W HBL430MI5W HBL430MI5W< | 20 | 3P 4W | ÷ | | | HBL420MI12W | HBL420P12W | - | _ |
| SP AW SP AW <th< th=""><th></th><th>3P 4W</th><th></th><th></th><th>3Ø 240V</th><th>HBL420MI9W</th><th>HBL420P9W</th><th>-</th><th>_</th></th<> | | 3P 4W | | | 3Ø 240V | HBL420MI9W | HBL420P9W | - | _ |
| 30 2P 3W 30 40 120V HBL330MI4W HBL330P4W - - 2P 3W 30 40 HBL330MI6W HBL330P5W - - 2P 3W 30 400V HBL330MI7W HBL330P7W - - 3P 4W 30 400V HBL430MI7W HBL430P7W HBL430MI9WR HBL430P3WR 3P 4W 30 30 240V HBL430MI7W HBL430P7W HBL430MI7WR HBL430P7WR 3P 4W 30 30 240V HBL430MI7W HBL430P7W HBL430P7WR 3P 4W 30 30 240V HBL30MI7W HBL430P7W HBL430P7WR 4P 5W 30 30 240V HBL30MI7W HBL430P7W HBL430P7WR 4P 5W 30 30 2477460V HBL530MI7W HBL430P7W - - 4P 5W 30 307 2777460V HBL530MI7W HBL530P7W - - - 4P 5W 30 307 47760V HBL530MI5W HBL530P5W - - <td< td=""><td></td><td>3P 4W</td><td>-</td><td></td><td>3Ø 480V</td><td>HBL420MI7W</td><td>HBL420P7W</td><td>-</td><td>-</td></td<> | | 3P 4W | - | | 3Ø 480V | HBL420MI7W | HBL420P7W | - | - |
| 2P 3W ③ 240// HBL330Mi6W HBL330P6W - - 2P 3W ③ 480// HBL330Mi7W HBL330P7W - - 3P 4W ③ ③ 120/240// HBL430Mi12W HBL430P12W - - 3P 4W ④ ③ 30/240// HBL430Mi12W HBL430P7W HBL430P3WR HBL430P3WR 3P 4W ④ ③ 30/460// HBL430Mi17W HBL430P7W HBL430P3WR HBL430P3WR 3P 4W ④ ④ 30/660// HBL430Mi17W HBL430P5W HBL430P5WR HBL430P5WR 4P 5W ⑥ ④ 30/97120/208V HBL530Mi17W HBL530P5W - - 4P 5W ⑥ ④ 30/97120/208V HBL530Mi17W HBL530P5W - - 4P 5W ⑥ ④ 30/9747600/ HBL530P17W - - - 4P 5W ⑥ ④ 10/4 HBL530Mi7W HBL432P3W - - - - | | 3P 4W | | | 3Ø 600V | HBL420MI5W | HBL420P5W | - | - |
| 2P 3W 30 480// HBL330MI7W HBL330P7W - - 3P 4W 30 120240// HBL430MI12W HBL430P12W - - 3P 4W 30 30 240// HBL430MI12W HBL430P9W HBL430P3WR HBL430P3WR 3P 4W 30 30 240// HBL430MI7W HBL430P3W HBL430P3WR 3P 4W 30 30 490// HBL430MI7W HBL430P5W HBL430P5WR 3P 4W 30 30 490// HBL430MI5W HBL430P5W HBL430P5WR 4P 5W 30 30 490// HBL530MI7W HBL530P5W - - 4P 5W 30 30/Y 277480V HBL530MI7W HBL530P5W - - 4P 5W 30 30/Y 347600V HBL530MI5W HBL530P5W - - 4P 5W 30 30/Y 347600V HBL530MI5W HBL432P3W - - 4P 5W 30 30/Y 347600V HBL450M17W HBL320P3W - - 2P 3W 30 <td>30</td> <td>2P 3W</td> <td>-</td> <td>\odot</td> <td>120V</td> <td>HBL330MI4W</td> <td>HBL330P4W</td> <td>-</td> <td>-</td> | 30 | 2P 3W | - | \odot | 120V | HBL330MI4W | HBL330P4W | - | - |
| 3P 4W ③ ④ 120/240V HBL430M112W HBL430P12W - - 3P 4W ⑥ ③ 302 240V HBL430M19W HBL430P3W HBL430M19WR HBL430P3WR 3P 4W ⑥ ③ 302 480V HBL430M17W HBL430P7W HBL430M17WR HBL430P17WR 3P 4W ⑥ ③ 302 600V HBL430M17W HBL430P5W HBL430M15WR HBL430P5WR 4P 5W ⑥ ③ 302 120/208V HBL530M19W HBL530P3W - - 4P 5W ⑥ ③ 302 120/208V HBL530M15W HBL530P5W - - 4P 5W ⑥ ⑨ 302 4777480V HBL530M15W HBL530P5W - - 4P 5W ⑥ ⑨ 302 4777480V HBL530M15W HBL530P5W - - 4P 5W ⑥ ⑨ 302 4777480V HBL530M15W HBL530P5W - - 4P 5W ⑥ ⑨ 120/V HBL530M16W HBL530P5W - | | 2P 3W | | \odot | 240V | HBL330MI6W | HBL330P6W | _ | _ |
| SP 4W SO SO 240V HBL430MI9W HBL430P3W HBL430MI9WR HBL430MI7WR HBL430MI7WR SP 4W SO SO 460V HBL430MI7W HBL430P7W HBL430MI7WR HBL430MI7WR SP 4W SO SO 460V HBL430MI7W HBL430P5W HBL430MI5WR HBL430MI5WR 4P 5W SO SO 2777460V HBL530MI9W HBL530P5W - - 4P 5W SO SO 2777460V HBL530MI7W HBL530P5W - - 4P 5W SO SO 24777460V HBL530MI7W HBL530P5W - - 4P 5W SO SO 24777460V HBL530MI5W HBL530P5W - - 4P 5W SO SO 2477460V HBL560MI4W HBL360P5W - - 4P 5W SO SO 240V HBL360MI2W HBL360P6W - - - 2P 3W SO SO 480V HBL460MI2W HBL460MI12WR HBL460MI9WR HBL460P12WR 3P 4W SO SO 302 400V <t< th=""><th></th><th>2P 3W</th><th>٢</th><th>\odot</th><th>480V</th><th>HBL330MI7W</th><th>HBL330P7W</th><th>-</th><th>-</th></t<> | | 2P 3W | ٢ | \odot | 480V | HBL330MI7W | HBL330P7W | - | - |
| 3P 4W 30 480V HBL430MI7W HBL430PTW HBL430MI7WR HBL430PTWR 3P 4W 30 600V HBL430MI5W HBL430PSW HBL430MI5WR HBL430PSWR 4P 5W 30 600V HBL530MI5W HBL530P5W - - 4P 5W 30 7120208V HBL530MI5W HBL530P7W - - 4P 5W 30 7277480V HBL530MI5W HBL530P5W - - 4P 5W 30 7374760V HBL530MI5W HBL530P5W - - 4P 5W 30 7374760V HBL530MI5W HBL530P5W - - 4P 5W 30 7377760V HBL530MI5W HBL320P3W - - 4P 5W 30 7374760V HBL432MI3W HBL320P4W - - 2P 4W 30 40 70 HBL360MI4W HBL360P4W - - - 2P 3W 30 420V HBL360MI7W HBL360P5W - - - 3P 4W 30 480V HBL460MI12W HBL460P12W HBL460MI13WR HBL460P12WR | | 3P 4W | ٢ | | 120/240V | HBL430MI12W | HBL430P12W | - | _ |
| 3P 4W 30 480V HBL430MI7W HBL430PTW HBL430MI7WR HBL430PTWR 3P 4W 30 600V HBL430MI5W HBL430PSW HBL430MI5WR HBL430PSWR 4P 5W 30 600V HBL530MI5W HBL530P5W - - 4P 5W 30 7120208V HBL530MI5W HBL530P7W - - 4P 5W 30 7277480V HBL530MI5W HBL530P5W - - 4P 5W 30 7374760V HBL530MI5W HBL530P5W - - 4P 5W 30 7374760V HBL530MI5W HBL530P5W - - 4P 5W 30 7377760V HBL530MI5W HBL320P3W - - 4P 5W 30 7374760V HBL432MI3W HBL320P4W - - 2P 4W 30 40 70 HBL360MI4W HBL360P4W - - - 2P 3W 30 420V HBL360MI7W HBL360P5W - - - 3P 4W 30 480V HBL460MI12W HBL460P12W HBL460MI13WR HBL460P12WR | | 3P 4W | | \odot | 3Ø 240V | HBL430MI9W | HBL430P9W | HBL430MI9WR | HBL430P9WR |
| 4P 5W S 30°Y 120/208V HBL530MI9W HBL530P9W - - 4P 5W S 30°Y 277/480V HBL530MI7W HBL530P7W - - 4P 5W S 30°Y 277/480V HBL530MI5W HBL530P5W - - 32 3P 4W S S 30°Y 347600V HBL432MI3W HBL432P3W - - 32 3P 4W S S 120V HBL432MI3W HBL432P3W - - 30 Y 30° S 120V HBL360MI6W HBL360P4W - - 2P 3W S Y 40V HBL360MI6W HBL360P6W - - - 2P 3W S Y 480V HBL360MI7W HBL460P12W HBL460M12WR HBL460P12WR 3P 4W S Y 30° 480V HBL460MI12W HBL460P12W HBL460MI3WR HBL460P3WR 3P 4W S Y 30° 480V HBL460MI12W HBL460P5W HBL460MI5WR HBL460P5WR 3P 4W S | | 3P 4W | ٢ | 0 | 3Ø 480V | HBL430MI7W | HBL430P7W | HBL430MI7WR | HBL430P7WR |
| 4P 5W S 30°Y 120/208V HBL530MI9W HBL530P9W - - 4P 5W S 30°Y 277/480V HBL530MI7W HBL530P7W - - 4P 5W S 30°Y 277/480V HBL530MI5W HBL530P5W - - 32 3P 4W S S 30°Y 347600V HBL432MI3W HBL432P3W - - 32 3P 4W S S 120V HBL432MI3W HBL432P3W - - 30 Y 30° S 120V HBL360MI6W HBL360P4W - - 2P 3W S Y 40V HBL360MI6W HBL360P6W - - - 2P 3W S Y 480V HBL360MI7W HBL460P12W HBL460M12WR HBL460P12WR 3P 4W S Y 30° 480V HBL460MI12W HBL460P12W HBL460MI3WR HBL460P3WR 3P 4W S Y 30° 480V HBL460MI12W HBL460P5W HBL460MI5WR HBL460P5WR 3P 4W S | | 3P 4W | | : | 3Ø 600V | HBL430MI5W | HBL430P5W | HBL430MI5WR | HBL430P5WR |
| 4P SW SQ 3QY 277480V HBL530M17W HBL530P7W - - 4P SW SQ SQ 3QY 277480V HBL530M15W HBL530P5W - - 32 3P 4W SQ SQ 3QY 247/600V HBL432M13W HBL432P3W - - 32 3P 4W SQ SQ 120V HBL360M14W HBL360P4W - - 40 SQ SQ 120V HBL360M14W HBL360P4W - - 2P 3W SQ SQ 120/240V HBL360M17W HBL360P7W - - 3P 4W SQ SQ 3Q 480V HBL460M12W HBL460P12WR HBL460P12WR 3P 4W SQ SQ 3Q 480V HBL460M17W HBL460P5W HBL460M17WR HBL460P5WR 3P 4W SQ SQ 3Q 480V HBL460M15W HBL460P5W HBL460M15WR HBL460P5WR 3P 4W SQ SQ 3Q'Y 277480V HBL460M15W HBL460M15WR - | | 4P 5W | | | 3ØY 120/208V | HBL530MI9W | HBL530P9W | _ | _ |
| 4P 5W SS 3ØY 347/600V HBL530M15W HBL530P5W - - 32 3P 4W SS SS 380V 50HZ 440V 60Hz HBL432M13W HBL32P3W - - 40 P 3W SS 120V HBL360M14W HBL360P4W - - 40 P 3W SS 120V HBL360M16W HBL360P6W - - 2P 3W SS QS 440V HBL360M17W HBL360P7W - - 2P 3W SS QS 440V HBL360M17W HBL360P7W - - 3P 4W SS QS 120/240V HBL460M12W HBL460P12WR HBL460P12WR 3P 4W SS QS 302 420V HBL460M17W HBL460P12W HBL460P12WR HBL460P3WR 3P 4W SS QS 302 420V HBL460M15W HBL460P12W HBL460P12WR HBL460P3WR 3P 4W SS QS 302 420V HBL460M15W HBL460P5W - - < | | 4P 5W | - | - | 3ØY 277/480V | HBL530MI7W | HBL530P7W | _ | _ |
| 32 3P 4W 380V 50HZ 440V 60Hz HBL432MI3W HBL432P3W - - 60 2P 3W 3 120V HBL360MI4W HBL360P4W - - 2P 3W 3 3 480V HBL360MI4W HBL360P4W - - 2P 3W 3 240V HBL360MI6W HBL360P6W - - 2P 3W 3 480V HBL360MI7W HBL360P7W - - 3P 4W 3 30 240V HBL460MI12W HBL460P12WR HBL460P9WR HBL460P9WR 3P 4W 3 30 240V HBL460MI7W HBL460P9W HBL460P9WR HBL460P9WR 3P 4W 3 30 240V HBL460MI7W HBL460P7W HBL460MI5WR HBL460P5WR 3P 4W 3 30 600V HBL460MI7W HBL460P5W HBL460P5WR HBL460P5WR 3P 4W 30 30Y 120/208V HBL560MI5W HBL60P5W - - 4P 5W 30Y 377/480V HBL560MI5W HBL560P5W - <td></td> <td>4P 5W</td> <td></td> <td></td> <td>3ØY 347/600V</td> <td>HBL530MI5W</td> <td>HBL530P5W</td> <td>_</td> <td>_</td> | | 4P 5W | | | 3ØY 347/600V | HBL530MI5W | HBL530P5W | _ | _ |
| 60 2P 3W 120V HBL360MI4W HBL360P4W - - 2P 3W 1 120V HBL360MI6W HBL360P6W - - 2P 3W 1 1202 HBL360MI6W HBL360P6W - - 2P 3W 1 120240V HBL360MI7W HBL360P7W - - 3P 4W 1 120240V HBL460MI12W HBL460P12W HBL460MI12WR HBL460P12WR 3P 4W 1 30/240V HBL460MI9W HBL460P9W HBL460MI9WR HBL460P9WR 3P 4W 1 30/240V HBL460MI7W HBL460P9W HBL460P7WR HBL460P7WR 3P 4W 1 30/480V HBL460MI5W HBL460P7WR HBL460P5WR HBL460P5WR HBL460P5WR 4P 5W 1 30/20208V HBL460MI9W HBL460P5W HBL460P5WR - - 4P 5W 1 30/24777480V HBL560MI7W HBL560P5W - - - 4P 5W 1 30/24777480V HBL560MI | 32 | 3P 4W | | | | HBL432MI3W | HBL432P3W | _ | _ |
| 2P 3W Image: Section of the section of th | 60 | 2P 3W | | | | HBL360MI4W | HBL360P4W | _ | _ |
| 2P 3W Image: Section of the section of th | | 2P 3W | | | 240V | HBL360MI6W | HBL360P6W | _ | _ |
| 3P 4W Image: Section of the section of th | | 2P 3W | | | 480V | HBL360MI7W | HBL360P7W | _ | _ |
| 3P 4W S 3Ø 240V HBL460Mi9W HBL460P9W HBL460Mi9WR HBL460P9WR 3P 4W S 3Ø 480V HBL460Mi7W HBL460P7W HBL460Mi7WR HBL460P7WR 3P 4W S 3Ø 480V HBL460Mi7W HBL460P7W HBL460Mi7WR HBL460P7WR 3P 4W S 3Ø 600V HBL460Mi5W HBL460P5W HBL460Mi5WR HBL460P5WR 4P 5W S 3Ø 120/208V HBL560Mi9W HBL560P9W - - 4P 5W S 3Ø 120/208V HBL560Mi7W HBL560P7W - - 4P 5W S 3Ø 120/208V HBL560Mi5W HBL560P5W - - 4P 5W S 3Ø 120/208V HBL560Mi5W HBL560P5W - - 4P 5W S 3Ø 120/240V HBL560Mi5W HBL3100P6W - - 3P 4W S 3Ø 240V HBL4100Mi12W HBL4100P12WR HBL4100P12WR 3P 4W S 3Ø 480V HBL4100Mi7W HBL4100P7WR HBL4100P7WR <td></td> <td>3P 4W</td> <td></td> <td></td> <td>120/240V</td> <td>HBL460MI12W</td> <td>HBL460P12W</td> <td>HBL460MI12WR</td> <td>HBL460P12WR</td> | | 3P 4W | | | 120/240V | HBL460MI12W | HBL460P12W | HBL460MI12WR | HBL460P12WR |
| 3P 4W Image: Section of the section of th | | 3P 4W | | _ | 3Ø 240V | HBL460MI9W | HBL460P9W | HBL460MI9WR | HBL460P9WR |
| 3P 4W Image: Signed state | | 3P 4W | Ö | - | 3Ø 480V | HBL460MI7W | HBL460P7W | HBL460MI7WR | HBL460P7WR |
| 4P 5W S 3ØY 120/208V HBL560MI9W HBL560P9W - - 4P 5W S 3ØY 277/480V HBL560MI7W HBL560P7W - - 4P 5W S 3ØY 347/600V HBL560MI7W HBL560P5W - - 4P 5W S 3ØY 347/600V HBL560MI5W HBL560P5W - - 4P 5W S 2P 3W S 240V HBL3100MI6W HBL3100P6W - - 100 2P 3W S 120/240V HBL4100MI12W HBL4100P12W HBL4100MI12WR HBL4100P12WR 3P 4W S 3Ø 240V HBL4100MI9W HBL4100P9WR HBL4100P12WR HBL4100P12WR 3P 4W S 3Ø 480V HBL4100MI9W HBL4100P9WR HBL4100P17WR HBL4100P7WR 3P 4W S 3Ø 600V HBL4100MI5W HBL4100P5W HBL4100MI5WR HBL4100P5WR | | 3P 4W | | | 3Ø 600V | HBL460MI5W | HBL460P5W | HBL460MI5WR | HBL460P5WR |
| 4P 5W Solve 277/480V HBL560MI7W HBL560P7W - - 4P 5W Solve 30Y 347/600V HBL560MI5W HBL560P5W - - 100 2P 3W Solve 240V HBL3100MI6W HBL3100P6W - - 3P 4W Solve 200 120/240V HBL4100MI12W HBL4100P12W HBL4100MI12WR HBL4100P12WR 3P 4W Solve 30 240V HBL4100MI9W HBL4100P9WR HBL4100P12WR HBL4100P12WR 3P 4W Solve 30 240V HBL4100MI7W HBL4100P9WR HBL4100P12WR HBL4100P12WR 3P 4W Solve 30 240V HBL4100MI7W HBL4100P3WR HBL4100P3WR HBL4100P3WR 3P 4W Solve 30 240V HBL4100MI7W HBL4100P3WR HBL4100P3WR HBL4100P3WR 3P 4W Solve 30 480V HBL4100MI7W HBL4100P3WR HBL4100P3WR HBL4100P3WR 3P 4W Solve 30 600V HBL4100MI5W HBL4100P5WR HBL4100P5WR HBL4100P5WR | | 4P 5W | - | - | 3ØY 120/208V | HBL560MI9W | HBL560P9W | _ | _ |
| 4P 5W Solves 3olves HBL560MI5W HBL560P5W - - 100 2P 3W Solves 240V HBL3100MI6W HBL3100P6W - - 3P 4W Solves 120/240V HBL4100MI12W HBL4100P12W HBL4100MI12WR HBL4100P12WR 3P 4W Solves 3olves 3olves HBL4100MI12W HBL4100P9WR HBL4100P12WR 3P 4W Solves 3olves Allees HBL4100MI7W HBL4100P9WR HBL4100P9WR 3P 4W Solves 3olves Allees HBL4100MI7W HBL4100P7WR HBL4100P7WR 3P 4W Solves 3olves HBL4100MI5W HBL4100P5WR HBL4100P5WR HBL4100P5WR | | 4P 5W | - | | 3ØY 277/480V | HBL560MI7W | HBL560P7W | - | _ |
| 100 2P 3W Image: Sign of the system of | | 4P 5W | | | 3ØY 347/600V | HBL560MI5W | HBL560P5W | - | _ |
| 3P 4W Image: Section of the sectin of the section of the section of the section | 100 | 2P 3W | | _ | 240V | HBL3100MI6W | HBL3100P6W | - | _ |
| 3P 4W Image: Sign 240V HBL4100MI9W HBL4100P9W HBL4100MI9WR HBL4100P9WR 3P 4W Image: Sign 240V HBL4100MI7W HBL4100P7W HBL4100MI7WR HBL4100P7WR 3P 4W Image: Sign 240V HBL4100MI7W HBL4100P7W HBL4100MI7WR HBL4100P7WR 3P 4W Image: Sign 240V HBL4100MI5W HBL4100P7WR HBL4100P7WR 3P 4W Image: Sign 240V Image: Sign 240V HBL4100MI5W HBL4100P5WR 3P 4W Image: Sign 240V Image: Sign 240V Image: Sign 240V HBL4100P5WR 3P 4W Image: Sign 240V Image: Sign 240V Image: Sign 240V Image: Sign 240V HBL4100P5WR 3P 4W Image: Sign 240V 3P 4W Image: Sign 240V Image: Si | | 3P 4W | ~ | - | 120/240V | HBL4100MI12W | HBL4100P12W | HBL4100MI12WR | HBL4100P12WR |
| 3P 4W Image: Sign 480V Image: Height 100 Height 1 | | 3P 4W | - | - | 3Ø 240V | HBL4100MI9W | HBL4100P9W | HBL4100MI9WR | HBL4100P9WR |
| 3P 4W 😳 3Ø 600V ■ HBL4100MI5W HBL4100P5W HBL4100MI5WR HBL4100P5WR | | 3P 4W | ÷ | - | 3Ø 480V | HBL4100MI7W | HBL4100P7W | HBL4100MI7WR | HBL4100P7WR |
| | | 3P 4W | - | - | 3Ø 600V | HBL4100MI5W | HBL4100P5W | HBL4100MI5WR | HBL4100P5WR |
| | | 4P 5W | | Ô | 3ØY 120/208V | HBL5100MI9W | HBL5100P9W | _ | _ |

Note: 20, 30 and 32A – 1 inch NPT hub supplied; 60 and 100A – 11/4 inch hub supplied.



HBLAC1



HBLAC2



HBL30RNB

HBL30RGB



MICPK30







HBL30MIRS



HBLRFT2

Dimensions in Inches (mm)

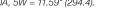
Auxiliary Contacts for 20, 30, 32, 60 and 100A Switch, NEMA A600 Pilot Duty

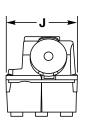
| Description | Catalog Number |
|--|-------------------|
| 'Break After Main Break", 1 set of n/o contacts, 1 set of n/c contacts. | HBLAC1 |
| 'Break Before Main Break", 1 set of n/o contacts. | HBLAC2 |
| Ground Block | |
| Description | Catalog Number |
| For 20, 30 and 32A switches. | HBL30RGB |
| For 60 and 100A switches. | HBL60100RGB |
| Neutral Block | |
| Description | Catalog Number |
| For 20, 30 and 32A switches. | HBL30RNB |
| For 60A switches. | HBL60RNB |
| For 100A switches. | HBL100RNB |
| Watertight Closure Plug Kits | |
| Description | Catalog Number |
| For 20, 30 and 32A Circuit-Lock Unfused and Fused Pin and Sleeve mechanical interlocks | s. MICPK30 |
| For 60 and 100A Circuit-Lock Unfused and Fused Pin and Sleeve mechanical interlocks. | MICPK60 |
| Replacement Flip Covers | |
| Description | Catalog Number |
| For 20A mechanical interlocks. | CA420MI |
| For 30 and 32A, 3 and 4 wire mechanical interlocks. | CA3430MI |
| For 30A, 5 wire mechanical interlocks. | CA530MI |
| For 60A mechanical interlocks. | CA60MI |
| For 100A mechanical interlocks. | CA100MI |
| Replacement Switches | |
| Description | Catalog Number |
| For 20A mechanical interlocks. | HBLDS3RS |
| For 30 and 32A mechanical interlocks. | HBL30MIRS |
| For 60 and 100A mechanical interlocks. | HBLDS60100R |
| Replacement Mounting Feet | |
| Description | Catalog Number |
| | HBLRFT2* |

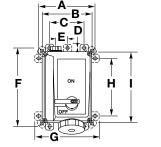
Dimensions

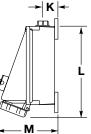
| KEY | 20A and 30A Inches (mm) | 60A Inches (mm) | 100A Inches (mm) |
|----------|----------------------------|--------------------|---------------------|
| A | 7.75" (196.9) | 7.75" (196.9) | 7.75" (196.9) |
| В | 6.87" (174.5) | 6.87" (174.5) | 6.87" (174.5) |
| С | 4.75" (120.7) | 4.75" (120.7) | 4.75" (120.7) |
| D | 1.02" (25.9) | 1.02" (25.9) | 1.02" (25.9) |
| E | 1.60" (40.6) | 1.46" (37.1) | 1.46" (37.1) |
| F | 11.00" (279.4) | 12.75" (323.9) | 12.75" (323.9) |
| G | 8.75" (222.3) | 8.75" (222.3) | 8.75" (222.3) |
| Н | 8.00" (203.2) | 9.75" (247.7) | 9.75" (247.7) |
| 1 | 10.12" (257.0) | 11.87" (301.5) | 11.87" (301.5) |
| J | 6.88" (174.8) | 6.88" (174.8) | 6.88" (174.8) |
| K | 1.93" (49.0) | 2.09" (53.1) | 2.09" (53.1) |
| L | 11.25" (285.8)** | 13.65" (346.7) | 13.65" (346.7) |
| Μ | 7.75" (196.9) | 8.60" (218.4) | 9.30" (236.2) |
| HUB SIZE | 1.00" NPT | 1.25" NPT | 1.25" NPT |

Note: *Package of 10 feet and 10 screws. **30 and 32A, 3 and 4W = 11.50" (292.1); 30A, 5W = 11.59" (294.4).









Typical Specifications

| Manufacturer's Identification | Hubbell HBL430MI7W | | | | | |
|--|---|--|--|--|--|--|
| Description | Circuit-Lock® Pin and Sleeve Mechanical Interlock | | | | | |
| Electrical Type | 3 Pole + Earth | | | | | |
| Rating | 30A, 480V AC, 3 Phase | | | | | |
| Configuration | IEC 60309-2, UL1686 C2, Clock position 7 | | | | | |
| Enclosure Type | Indoor and Outdoor - 4X (Watertight, Washdown); Indoor - 12 (Dust-tight, Falling Dirt and Noncorrosive Liquids) | | | | | |
| Ingress Protection | IP67 Suitability | | | | | |
| Enclosure Material | Non-metallic, enclosure suitable for metallic conduit | | | | | |
| Certification | UL Listed, CSA Certified | | | | | |
| Nate: This device provides an off switched control of a plug connected load and includes an interleaking feature to provent the plug from being disconnected while | | | | | | |

Note: This device provides on/off switched control of a plug connected load and includes an interlocking feature to prevent the plug from being disconnected while the receptacle is energized. The switch cannot be turned "ON" until the plug is inserted properly, and the plug cannot be removed until the switch is turned "OFF."

Materials

| Part | Material | Part | Material |
|------------------|----------------------------|-------------------|----------------------------|
| Base | PBT | Тор | PBT |
| Handle | PBT | Conduit Hub | Zinc |
| Enclosure Gasket | Neoprene | Shaft | PBT |
| Shaft Seal | Neoprene | Ground Plate | Galvanized Steel |
| Enclosure Screws | Stainless Steel 300 Series | Enclosure Inserts | Brass |
| Hinge Pins | Nickel Plated Brass | Hinge Spring | Stainless Steel 300 Series |

Performance

| Electrical | |
|--------------------------------|---|
| Dielectric Voltage | Withstands 3,000V AC Min. |
| Max. Working Voltage | 600V AC RMS. |
| Current Interrupting | Certified for current interrupting at full rated current and voltage. |
| Short Circuit Withstand Rating | Suitable for use on a circuit capable of delivering not more than 10,000 RMS symmetrical amperes at the voltage rating of the receptacle. 20A and 30A models: Suitable for use on a circuit capable of delivering not more than 65,000 RMS symmetrical amperes, 600V when protected by class "J" fuses rated 30A. |
| Operations | Mechanical 10,000 cycles, electrical 6,000 cycles. |
| Mechanical | |
| Impact Resistance | In accordance with UL 746C. |
| Terminal Identification | In accordance with UL, CSA and international conventions. |
| Product Identification | Identification and ratings are part of the external label and molded into the receptacle mount. |
| Mounting | External adjustable feet. |
| Environmental | |
| Moisture Resistance | Indoor and Outdoor - 4X (Watertight, Washdown); Indoor - 12 (Dust-tight, Falling Dirt and Noncorrosive Liquids). |
| Ingress Protection | IP69K Suitability. |
| Flammability | UL94-5VA and V-0 Classification. |
| Operating Temperature | Max. Continuous +75°C; Min. Continuous -40°C. |
| UV Resistance | All materials are UV stabilized. |

Horsepower Ratings

| Amps | AC Voltage Rating | Horsepower | Mechanical Interlock | Mating Plug |
|------|-----------------------------|----------------------|----------------------|-------------|
| 20 | 120/240V AC | 2 | HBL420MI12W | HBL420P12W |
| 20 | 3Ø 240V AC | 5 | HBL420MI9W | HBL420P9W |
| 20 | 3Ø 480V AC | 10 | HBL420MI7W | HBL420P7W |
| 20 | 3Ø 600V AC | 10 | HBL420MI5W | HBL420P5W |
| 30 | 120V AC | 2 | HBL330MI4W | HBL330P4W |
| 30 | 240V AC | 3 (208-240V AC) | HBL330MI6W | HBL330P6W |
| 30 | 480V AC | 7.5 | HBL330MI7W | HBL330P7W |
| 30 | 120/240V AC | 3 (208-240V AC) | HBL430MI12W | HBL430P12W |
| 30 | 3Ø 600V AC | 20 | HBL430MI5W | HBL430P5W |
| 30 | 3Ø 480V AC | 15 | HBL430MI7W | HBL430P7W |
| 30 | 3Ø 250V AC | 7.5 | HBL430MI9W | HBL430P9W |
| 30 | 3ØY 347/600V AC | 20 | HBL530MI5W | HBL530P5W |
| 30 | 3ØY 277/480V AC | 15 | HBL530MI7W | HBL530P7W |
| 30 | 3ØY 120/208V AC | 5 | HBL530MI9W | HBL530P9W |
| 32 | 380V AC 50Hz – 440V AC 60Hz | 15 (440V AC 3Ø 60Hz) | HBL432MI3W | HBL432P3W |
| 60 | 120V AC | 3 | HBL360MI4W | HBL360P4W |
| 60 | 240V AC | 7.5 (208-240V AC) | HBL360MI6W | HBL360P6W |
| 60 | 480V AC | 20 | HBL360MI7W | HBL360P7W |
| 60 | 120/240V AC | 7.5 (208-240V AC) | HBL460MI12W | HBL460P12W |
| 60 | 3Ø 600V AC | 40 | HBL460MI5W | HBL460P5W |
| 60 | 3Ø 480V AC | 30 | HBL460MI7W | HBL460P7W |
| 60 | 3Ø 250V AC | 15 | HBL460MI9W | HBL460P9W |
| 60 | 3ØY 347/600V AC | 40 | HBL560MI5W | HBL560P5W |
| 60 | 3ØY 277/480V AC | 30 | HBL560MI7W | HBL560P7W |
| 60 | 3ØY 120/208V AC | 15 | HBL560MI9W | HBL560P9W |
| 100 | 240V AC | 15 (10 @ 208V AC) | HBL3100MI6W | HBL3100P6W |
| 100 | 120/240V AC | 15 | HBL4100MI12W | HBL4100P12W |
| 100 | 3Ø 600V AC | 50 | HBL4100MI5W | HBL4100P5W |
| 100 | 3Ø 480V AC | 50 | HBL4100MI7W | HBL4100P7W |
| 100 | 3Ø 250V AC | 25 (208-240V AC) | HBL4100MI9W | HBL4100P9W |
| 100 | 3ØY 120/208V AC | 20 | HBL5100MI9W | HBL5100P9W |

Features and Benefits

IP66

Fused Circuit-Lock[®] Pin and Sleeve Mechanical Interlocks

Hubbell Circuit-Lock[®] Pin and Sleeve Mechanical Interlocks are a revolutionary design that incorporates a disconnect switch and pin and sleeve receptacle in a compact non-metallic unit. These devices offer maximum safety by preventing users from mating or breaking a circuit under load—Hubbell's interlock mechanism detects the presence of a plug and prevents it from being removed when the switch is in the "ON" position.

It features a high visibility red handle that can be locked in the OFF position to meet OSHA lockout/tagout regulations. The enclosure door can be locked to prevent unauthorized access. The rugged, corrosion-resistant Type 4X PBT enclosure features adjustable mounting feet for flexible installation, while the receptacle's springloaded cover with gasket is dust tight and provides a watertight seal when turned and locked.

The patented Plug-Check[™] mechanism detects the presence of the plug. It operates as a clutch to engage the handle with the switch and captures the plug. This action prevents the plug from being removed until the switch is turned OFF.





Housing Design

- Non-metallic enclosure meets UL 50E Type 4X (watertight), 12 (dust-tight) and IP66 suitability requirements. Enclosure is molded of rugged thermoplastic PBT to resist abuse, corrosion and enhance safety
- Stainless steel 1/4 turn door fasteners for quick, easy access to fuses



Interior Design

- Compact Fused Disconnect Switch accepts Class "J" fuses. Fuse holders are top mounted for easy access
- The switch accepts auxiliary contacts for control circuit applications including the ON/OFF control of remote pilot lights or signal for programmable controllers



Safety

- High visibility red handle can be locked in the OFF position as a method of compliance with OSHA lockout requirements. Accepts up to a ⁵/₁₆ inch padlock shackle
- Replaceable spring-loaded receptacle liftcover with gasket ensures dust tight rating; liftcover provides watertight seal when turned and locked



Enclosure Door

- Removable door for ease of wiring and installation
- Enclosure door can be locked to prevent unauthorized access. Additionally, if the switch is ON, the door cannot be opened





Contact Carrier

- Thermoset polyester contact carrier provides resistance to electrical tracking and withstands higher temperatures
- Thermoset properties provide excellent dimensional stability, low moisture absorption and superior dielectric strength

Installation

- Three molded-in conduit drill points are located on the top, bottom and back surface of enclosure. Conduit hub provided: 30A 1 in. NPT, 60A 1¼ in. NPT
- Conduit hub and adjustable mounting feet (4) are ductile to allow mounting on irregular surfaces
- HUBBELL[®] Wiring Device-Kellems

Enclosure Type 4X, 12

IP66

c(UL)us

| | | | | | | SUITABILITY | | |
|------|--------------|--------------------|------------------|--------------|----------------------|-------------------------------|-----------|--------------|
| | | | Rating | | Fused Circu | iit-Lock [®] Devices | 10 M | |
| | Poles and | Configu Recep./ | iration Plug/ | | | 1 | | |
| Amps | | Conn. | Inlet | AC Voltage | Mechanical Interlock | Mating Plug | 100 | N CN |
| 30 | 3P 4W | | \odot | 120/240V | HBL430MIF12W | HBL430P12W | 1 | 07 |
| | 3P 4W | | \odot | 3Ø 240V | HBL430MIF9W | HBL430P9W | | ۹ 📇 |
| | 3P 4W | | \odot | 3Ø 480V | HBL430MIF7W | HBL430P7W | HBL4 | 30MIF12W |
| | 3P 4W | | \odot | 3Ø 600V | HBL430MIF5W | HBL430P5W | Gray S | Style Switch |
| | 4P 5W | | \odot | 3ØY 277/480V | HBL530MIF7W | HBL530P7W | - | 1.11.11 |
| 60 | 3P 4W | | \odot | 120/240V | HBL460MIF12W | HBL460P12W | | |
| | 3P 4W | | \odot | 3Ø 240V | HBL460MIF9W | HBL460P9W | | |
| | 3P 4W | | | 3Ø 480V | HBL460MIF7W | HBL460P7W | | |
| | 3P 4W | 0 | \odot | 3Ø 600V | HBL460MIF5W | HBL460P5W | HBLACFSNO | HBL30M |
| | 4P 5W | | | 3ØY 120/208V | HBL560MIF9W | HBL560P9W | | Style Switc |

Note: 30A – 1 inch NPT hub supplied; 60A – 1¼ inch hub supplied.

Replacement Auxiliary Contacts

| Description | Black Style Switch Catalog Number | Gray Style Switch Catalog Number |
|--|--------------------------------------|-------------------------------------|
| Auxiliary contact, normally open, A600 pilot duty, break before break. | ACFSNO | HBLACFSNO |
| Auxiliary contact, normally closed, A600 pilot duty, break before break. | ACFSNC | HBLACFSNC |

Note: Auxiliary contacts are specific to the style switch noted and are NOT interchangeble. All new installations are shipped with gray style switch.

Replacement Switches

| Description | Gray Style Switch Catalog Number |
|--|-------------------------------------|
| For 30A fused switches. | HBL30MIFRS |
| For 60A fused switches. Gray Style switch will retro fit Black Style switch. | HBL60MIFRS |

Watertight Closure Plug Kits

| Description | Catalog Number |
|---|----------------|
| For 30A Circuit-Lock [®] unfused and fused Pin and Sleeve mechanical interlocks. | MICPK30 |
| For 60 and 100A Circuit-Lock [®] unfused and fused Pin and Sleeve mechanical interlocks. | MICPK60 |

Replacement Flip Covers

| Description | Catalog Number |
|--|----------------|
| For 30A, 3 and 4 wire mechanical interlocks. | CA3430MI |
| For 30A, 5 wire mechanical interlocks. | CA530MI |
| For 60A mechanical interlocks. | CA60MI |

Replacement Mounting Feet

 Description
 Catalog Number

 Replacement mounting feet and screws for 30 and 60A fused mechanical interlocks.
 HBLRFT2^A

 Note: ^APackage of 10 feet and 10 screws.
 HBLRFT2^A

ACFSNO HBL30MIFRS
Black Style Switch



ACFSNO



MICPK30





HBLRFT2

| Specifications | | Materials | |
|--|---|---|--|
| Typical Specifications | | Part | Material |
| Manufacturer's Identification Description Electrical Type Rating Configuration | Hubbell HBL460MIF7W Fused Circuit-Lock Pin and Sleeve Mechanical Interlock 3 Pole + Earth 60A, 480V AC, 3 Phase IEC 60309-2, UL1686C2, Clock Position 7 Iedeor and Outloor 4X (Motortight Mapdaum) | Base and Top Handle Conduit Hub Enclosure Gasket Shaft Shaft Seal | PBT PBT Zinc, 30A-1", 60A-1¼" NPT Neoprene Brass |
| Enclosure Type Certification | Indoor and Outdoor - 4X (Watertight, Washdown) Indoor - 12 (Dust-tight, Falling dirt) UL Listed for US and Canada | Ground Plate Enclosure Screws Mounting Inserts Hinge Pin Hinge Spring | Neoprene Galvanized Steel Stainless Steel Brass Nickel-Plated Brass Stainless Steel |

Note: This device provides fused switched control of a plug connected load and includes an interlocking feature to prevent the plug from being disconnected or the fuse door opened while the receptacle is energized. The switch cannot be turned on until the plug is inserted properly.

Performance

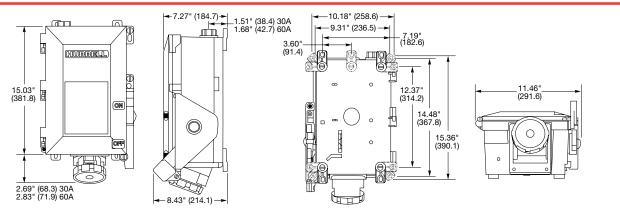
| Electrical | |
|--------------------------------|---|
| Dielectric Voltage | Withstands 3,000V AC Min. |
| Max. Working Voltage | 600V AC. |
| Current Interrupting | Certified for current interrupting at full rated current and voltage. |
| Short Circuit Withstand Rating | Suitable for use on a circuit capable of delivering not more than 200,000 RMS symmetrical amperes |
| | at the voltage rating of receptacle. |
| Operations | Mechanical 10,000 cycles minimum. |
| Mechanical | |
| Impact Resistance | In accordance with UL 746C. |
| Terminal Identification | In accordance with UL, CSA and international conventions. |
| Product Ratings | Ratings are part of the external label and molded into the receptacle mount and color-coded. |
| Mounting | External adjustment feet. |
| Environmental | |
| Moisture Resistance | Indoor and Outdoor - 4X (Watertight, Washdown); Indoor - 12 (Dust-tight, Falling dirt). |
| Ingress Protection | IP66 Suitability. |
| Flammability | UL94-5VA and V-0 Classification. |
| Operating Temperatures | Max. Continuous +75°C; Min. Continuous -40°C. |
| UV Resistance | All materials are UV stabilized. |
| Fuse Types | UL Listed Class "J". CSA Certified HRCI-J. |

Horsepower Ratings

| Amps | AC Voltage Rating | Standard | Maximum** | Mechanical Interlock | Use Pin and Sleeve Plug |
|------|-------------------|----------|-----------|----------------------|-------------------------|
| 30 | 3Ø 600V AC | 7.5 | 20 | HBL430MIF5W | HBL430P5W |
| 30 | 3Ø 480V AC | 5 | 15 | HBL430MIF7W | HBL430P7W |
| 30 | 3Ø 240V | 3 | 7.5 | HBL430MIF9W | HBL430P9W |
| 30 | 120/240V AC | 1.5* | 3* | HBL430MIF12W | HBL430P12W |
| 30 | 3ØY 277/480V | 5 | 15 | HBL530MIF7W | HBL530P7W |
| 60 | 3Ø 600V AC | 15 | 50 | HBL460MIF5W | HBL460P5W |
| 60 | 3Ø 480V AC | 15 | 30 | HBL460MIF7W | HBL460P7W |
| 60 | 3Ø 240V AC | 7.5 | 15 | HBL460MIF9W | HBL460P9W |
| 60 | 120/240V AC | 3* | 10* | HBL460MIF12W | HBL460P12W |
| 60 | 3ØY 120/208V | 7.5 | 15 | HBL560MIF9W | HBL560P9W |

Note: *208-240V AC L-L. **Requires time delay fuses.

Dimensions



Dimensions in Inches (mm)

Features and Benefits

20 and 30 Amps Low Profile

Hubbell's Low Profile Pin and Sleeve devices were designed to save space without sacrificing pin and sleeve strength, safety and convenience. The small compact design of these plugs is ideal for indoor applications where space is at a premium.

These devices are fully interchangeable with standard IEC 60309 pin and sleeve. They are a perfect fit for tight situations frequently found in hotels, restaurants, convention centers, warehouses, assembly benches and offices.







Housing Design

- Nylon construction, both interior and exterior are made of tough, durable nylon
- Shrouded, recessed pins are protected from impact and abuse



Cord Grip

• Integrated cord grip limits strain on terminals, keeps cord connected



Safety

- Large markings for easy recognition results in ease of wiring on the assembly line or in the field
- Shroud protects personnel from exposure to arcing



Brass Box Terminal

- Permits high clamping pressure on conductors without damaging wire strands for best electrical conductivity
- Solid one-piece pins construction, for long life, reliable electrical contact and maximum conductivity



Identification

- Color coding for quick, easy visual identification of mating devices
- Ratings and certification are molded into the nylon housing for easy identification and reordering



Split Sleeves

- Self-adjusting stainless steel springs assure constant contact pressure (20A and 30A). On 60A devices, Beryllium copper insert with multiple contact points assures easy insertion and a tight fit
- Stainless steel terminal screws resist rust and corrosion

Low Profile Devices

| | | Rati | ing | | Devices | | Cord Diameter |
|------|-----------------------|--|----------------------|---------|-------------|---------------------|---------------------------------|
| Amps | Poles and Wires | Configuratic Recep./ Plu Conn. Inl | ıg/ | Plug | | Receptacle | O-O Min. Max. Inches (mm) |
| 20 | 3P 4W | (e) | 3Ø 250V | _ | | L420R9 | .350"710" (8.3 - 15.9) |
| 30 | 3P 4W | | 125/250V | L430P12 | | L430R12 | .390"775" (9.9 - 19.7) |
| 30 | 3P 4W | | 3Ø 250V | L430P9 | | L430R9 | .390"775" (9.9 - 19.7) |
| Amps | Poles and Wires | Configuratio Recep./ Plu Conn. Inl | ig/ et AC Voltage | Plug | | Receptacle | O-O Min. Max. Inches (mm) |
| 60 | 3P 4W | | 3Ø 250V | A460P9 | With Cover: | A460R9 A460R9KIT | .75" - 1.25" (19.1 - 31.8) |
| Amps | Poles and Wires | Configuratic Recep./ Plu Conn. Inl | ıg/ | Plug | 2 | Receptacle | O-O Min. Max. Inches (mm) |
| 60 | 4P 5W | () | 3ØY 120/208V | A560P9 | | HBL560R9W | .89" - 1.42" (22.6 - 36.1) |
| 100 | 4P 5W | (() | 3ØY 120/208V | A5100P9 | | HBL5100R9W | 1.34" - 1.50" (34.0 - 38.1) |

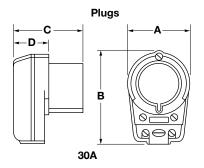
Specifications

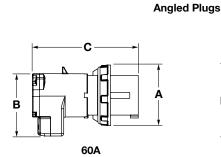
| Electrical | |
|------------------------------------|---|
| Dielectric Withstand Voltage | 3000V AC |
| Max. Working Voltage | 250V RMS |
| Current Interrupting | Certified for current interruption at full rated current. |
| Temperature Rise | Max. 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current at a power factor of 75%. |
| Endurance | Up to 5,000 connect and disconnect cycles at |
| Endurance | full rated current and voltage. |
| Mechanical | |
| Impact Resistance | Per CSA C22.2 No. 182.1 / UL1682 |
| Cord Grip Cable Retention | Per CSA C22.2 No. 182.1 / UL1682 |
| Cord Accommodation | Round portable service cords of diameters commensurate with the device rating as defined in UL standard 62, CSA C22.2 No. 49 and the <har> European Standards.</har> |
| Terminal Identification | Terminals identified in accordance with North American convention. |
| Product Identification | Ratings are a permanent part of the device housing. |
| Environmental | |
| Flammability Ingress Protection | HB or better per UL94 or CSA C22.2 No. 0.17 IP22 Suitability |
| Operating Temperatures | Maximum Continuous 75° C; |
| · | Minimum -40°C without impact |
| | |

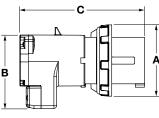
Application Guide

| Indoor location and maintenance. Indoor location and maintenance. Indoors for added safety and abuse resistance. |
|---|
| Indoors for added safety and abuse resistance. |
| resistance. |
| |
| |
| Indoor location and maintenance. |
| Food service areas where aesthetics |
| and space are concerns. |
| Indoor locations and maintenance. |
| Light assembly areas, stamping |
| operations and maintenance areas. |
| Warehouse and maintenance areas. |
| |
| Material |
| PBT |
| PBT |
| PBT |
| High-Impact Thermoset |
| Brass CDA#360 |
| Stainless Steel (300 series) |
| Stainless Steel (300 series) |
| Stainless Steel (500 series) |
| |
| PBT |
| PBT |
| High-Impact Thermoset Brass CDA #360 |
| |
| Stainless Steel (300 series) |
| Stainless Steel (300 series) Galvanized Steel |
| Gaivai iizeu Sieei |
| Alumainum |
| Aluminum |
| Aluminum PBT Stainless Steel (300 series) |
| |

| Туре | А | В | С | D | Cord Range Diameter |
|---------|----------|----------|----------|--------|---------------------|
| L430P12 | 2.97" | 4.18" | 3.50" | 1.71" | .390"775" |
| | (75.4) | (106.2) | (88.9) | (43.4) | (9.9-19.7) |
| A460P9 | 3.38" | 4.25" | 7.00" | _ | .75"-1.25" |
| | (85.9) | (108.0) | (177.8) | | (19.1- 31.8) |
| A5100P9 | 4.92" | 5.07" | 8.60" | _ | 1.34"-1.50" |
| | (125.00) | (128.81) | (218.35) | | (34.0- 38.1) |



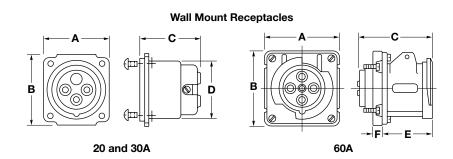




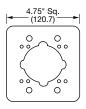
100A

Wall Mount Receptacle Dimensions

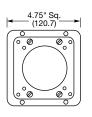
| Туре | A | В | С | D | E | F |
|---------|------------------|------------------|------------------|-----------------|-----------------|----------------|
| L420R9 | 2.60" (66.0) | 2.81" (71.4) | 2.28" (57.9) | 2.38" (60.5) | _ | - |
| L430R12 | 3.12" (79.2) | 3.12" (79.2) | 2.77" (70.4) | 2.76" (70.1) | _ | - |
| A460R9 | 4.50" (114.3) | 4.50" (114.3) | 4.48" (113.8) | - | 3.62" (91.9) | .50" (12.7) |



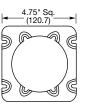
Adapter Plate (Included with "L" and "A" series receptacles)



20A Mounting 2-gang box

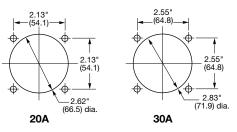


30A Mounting 2-gang box



60A Mounting 2-gang box and 4¹¹/₁₆" box

Panel Cutout



Dimensions in Inches (mm)

Terminal Marking Pattern* Rating Receptacle and Connector Plug and Inlet Domestic International Domestic International Domestic International Description -White White \square \bigcirc œ (L+ 125V AC 3 Wire 100-130V 277V AC Green - Green ∠_Green Green \supset ⊕ œ С 250V AC 200-250V 3 Wire 480V AC 380-415V AC 600V AC - Green ∠– Green White White Ø Ø 125/250V AC D G 6 G 4 Wire 1ØY 120/208V - Green - Green ★ Pilot ★Pilot G G (3Ø Δ) 250V AC G Õ G ЮG (L) 380-415V AC 4 Wire 480V AC 600V AC - Green - Green White - ★Pilot ★Pilot White 220/380V 50Hz (3ØY) 250/440V 60Hz (L₃) Ŀ 120/208V AC 5 Wire 200/346V to 277/480V AC 240/415V 347/600V AC 50 and 60Hz - Green Green

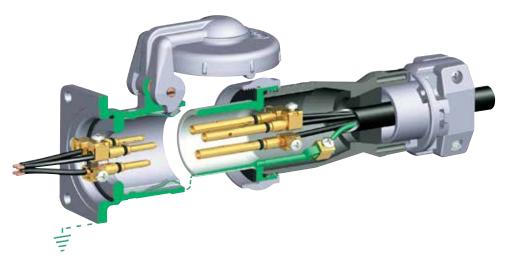
IEC Pin and Sleeve Terminal Identification - Rear View

Note: *Location of grounding contact position will change as clock positions assigned to specific voltages change.

★ Pilot contacts supplied on 4 and 5 wire, 63 and 125 Amp international rated devices.

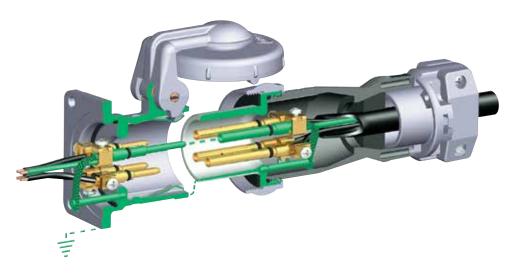
Ground Path

To reduce the likelihood of electrical shock, the National Electrical Code requires that non-current carrying metallic components be grounded. Insulgrip Pin and Sleeve wiring devices offer two styles of grounding.



Style I

Receptacles achieve grounding by attaching the ground conductor to the ground screw inside the back box and utilizing the metallic receptacle shell as a ground source (see 3P 4W Style I illustration). Plugs and connectors establish arounding by means of connecting the flexible cable ground conductor to a ground terminal within each device, which, in turn, is grounded through the metallic plug or connector shroud. Any exposed metallic components are suitably grounded in the Style I offering.



Style II

The Style II ground path offers two means of achieving the proper ground path. In addition to utilizing the same grounding method as in the Style I product, the Style II version incorporates a separate ground pin and sleeve (see 3P 4W Style II illustration). This provides a second ground path. The ground pin on Style II devices is longer than other pins, meaning that they "make first" and "break last," assuring protection for people and equipment.

New Pole and Wire Terminology

| 1 | | Style I | | | Style II | |
|---|-------|---------|-----------------|-------|----------|-----------------|
| - | New | Old | No. of Contacts | New | Old | No. of Contacts |
| | 2P 3W | 2W 2P | 2 | 2P 3W | 2W 3P | 3 |
| | 3P 4W | 3W 3P | 3 | 3P 4W | 3W 4P | 4 |
| | 4P 5W | 4W 4P | 4 | | | |

Features and Benefits

UL 1686 C1 Insulgrip[®] Pin and Sleeve Devices

UL standard 1686-C1 configurations are uniform throughout the industry. That means Hubbell–the name that sets the standard for pin and sleeve performance, reliability, durability, innovation and ease of use should be your standard.

Hubbell's line of heavy duty Insulgrip[®] Pin and Sleeve wiring devices not only offers complete interchangeability, it delivers the goods when it comes to superior design and construction. Hubbell Insulgrip Pin and Sleeve devices are engineered and built to handle today's most demanding work environments, making Hubbell the unsurpassed heavyweight in the heavy duty market.



TYPE 4X



Housing Design

- Thermoplastic housing provides excellent insulating, impact, corrosion, and UV resistant properties. Protects users and internal components in the roughest of environments
- Spring-loaded, gasketed cover provides a UL Type 4X watertight, dust-tight seal on connectors and receptacles



Powerful Mechanical Cord Grip

- Hubbell's design incorporates two molded-in teeth to securely grip the outer cable jacket, and internal conductors to prevent slippage and strain on terminations
- Captive barrel nuts ease assembly and allow higher tightening torque for maximum cord retention



Watertight Cord Entrance

- The tapered bore entrance creates high compression forces on sealing gland, providing a watertight seal around cord
- Individual solid neoprene glands are supplied to match a full range of cord sizes and assure watertight performance



Terminal Entrance Holes

Liquidtight Conduit AdaptersMachined aluminum adapters are

Sleeve plug or connector

available to provide a means for

attaching flexible liquidtight metal

conduit to rear of Hubbell Pin and

- Large, square funneled entrance holes isolate each conductor to protect against shorts due to stray conductor strands
- Tapered hole provides a fast and easy guide into the termination chamber
- Pin chamber confines arcing within the interior chamber during make and break cycle of mating devices, minimizes arc tracking



- Interlocking box terminals ensure that terminal screws remain secure and cannot loosen
- The floating box is designed to obtain high-torque values without damaging stranded conductors

Features and Benefits

UL 1686 C1 Insulgrip[®] Pin and Sleeve Devices

Metallic where you want It, non-metallic where you need it. Different from traditional all-metallic devices, Hubbell Pin and Sleeve wiring devices are designed to provide metallic shrouding where you want it and a non-metallic housing where you need it.

What's more, Hubbell's watertight Insulgrip Pin and Sleeve wiring devices are designed with safety first and foremost. We created the line with plant facility maintenance personnel and a safer industrial work environment in mind. To greatly reduce the likelihood of electrical shock, we developed our exclusive nonmetallic watertight system, meaning that with Hubbell on the job, the mix of electricity and water isn't the threat it once was. So, whether the job calls for a welding outlet in a dry location or a motor disconnect in a wet location, step up to Hubbell Pin and Sleeve wiring devices.



Housing Design

- Thermoplastic housing provides excellent insulating, impact, corrosion, and UV resistant properties. Protects users and internal components in the roughest of environments
- Locking ring provides a UL Type 4X watertight and dust-tight seal when the male and female devices are connected





Interior Design

- Sleeve O-ring seal provides a watertight and dust-tight seal around the sleeves. Assures that contamination will not enter wire chamber
- All-brass sleeve contacts provide reliable electrical contact with mating pins, also with minimum heat build-up over time



Shrouded Sleeves

- Housing seal provides a watertight and dust-tight seal when mated with receptacle or connector
- Protects the user from the possibility of touching live contacts during insertion and withdrawal of mating parts
- Shroud protects contact sleeves from deforming from physical abuse

Thermoset Polyester Contact Carrier

- Molded thermoset polyester provides high resistance to electrical tracking
- Withstands higher temperatures which may result from overload or arcing
- Thermoset properties provide dimensional stability for this critical assembly



Product Marking

 Catalog number and rating visible while in use. Markings are color coded differentiating Style I and Style II devices



Beryllium Copper Spring-Pin Design (Patented)

 Maintains high unit pressure on mating sleeves. Ensures reliable electrical contact while minimizing heat rise due to normal pin wear over time



| | | Rating | | | Style I Devices | | Benlacem | ent Interiors |
|------------|-----------------------|--|-----------------------------|-------------|------------------|-------------|---------------------------|------------------------|
| | Poles | Receptacle/ Connector | Maximum Voltage | | | | Connector & | 0 |
| Amps 30 | Wires | Configuration* | AC/DC | Receptacle | Plug | Connector | Receptacle | Plug |
| 00 | 2P 3W | | 600/250 | HBL330RS1W | HBL330PS1W | HBL330CS1W | IN330FS1 | IN330MS1 |
| | 3P 4W | | 600/250 | HBL430RS1W | HBL430PS1W | HBL430CS1W | IN430FS1 | IN430MS1 |
| | 4P 5W | | 600/250 | HBL530RS1W | HBL530PS1W | HBL530CS1W | IN530FS1 | IN530MS1 |
| 60 | 2P 3W | | 600/250 | HBL360RS1W | HBL360PS1W | HBL360CS1W | IN360FS1 | IN360MS1 |
| | 3P 4W | | 600/250 | HBL460RS1W | HBL460PS1W | HBL460CS1W | IN460FS1 | IN460MS1 |
| | 4P 5W | | 600/250 | HBL560RS1W | HBL560PS1W | HBL560CS1W | IN560FS1 | IN560MS1 |
| 100 | 2P 3W | | 600/250 | HBL3100RS1W | HBL3100PS1W | HBL3100CS1W | IN3100FS1 | IN3100MS1 |
| | 3P 4W | | 600/250 | HBL4100RS1W | HBL4100PS1W | HBL4100CS1W | IN4100FS1 | IN4100MS1 |
| | 4P 5W | | 600/250 | HBL5100RS1W | HBL5100PS1W | HBL5100CS1W | IN5100FS1 | IN5100MS1 |
| 200 | 3P 4W | | 600/250 | HBL4200RS1W | HBL4200PS1W | HBL4200CS1W | IN4200FS1 [†] | IN4200MS1 [†] |
| | 4P 5W | | 600/250 | HBL5200RS1W | HBL5200PS1W | HBL5200CS1W | IN5200FS1 [†] | IN5200MS1 [†] |
| | | Rating | | | Style II Devices | | Replacem | ent Interiors |
| Amps | Poles and Wires | Receptacle/ Connector Configuration* | Maximum Voltage AC/DC | Receptacle | Plug | Connector | Connector & Receptacle | Plug |
| 30 | 2P 3W | | 600/250 | HBL330RS2W | HBL330PS2W | HBL330CS2W | IN330FS2 | IN330MS2 |
| | 3P 4W | | 600/250 | HBL430RS2W | HBL430PS2W | HBL430CS2W | IN430FS2 | IN430MS2 |
| 60 | 2P 3W | | 600/250 | HBL360RS2W | HBL360PS2W | HBL360CS2W | IN360FS2 | IN360MS2 |
| | 3P 4W | | 600/250 | HBL460RS2W | HBL460PS2W | HBL460CS2W | IN460FS2 | IN460MS2 |
| 100 | 2P 3W | | 600/250 | HBL3100RS2W | HBL3100PS2W | HBL3100CS2W | IN3100FS2 | IN3100MS2 |
| | 3P 4W | | 600/250 | HBL4100RS2W | HBL4100PS2W | HBL4100CS2W | IN4100FS2 | IN4100MS2 |
| 200 | 2P 3W | | 600/250 | HBL3200RS2W | HBL3200PS2W | HBL3200CS2W | IN3200FS2 [†] | IN3200MS2 [†] |
| | 3P 4W | | 600/250 | HBL4200RS2W | HBL4200PS2W | HBL4200CS2W | IN4200FS2 [†] | IN4200MS2 [†] |

| | | Rating | | Co | rrosion Resistant De | Accessories | | |
|------|-----------------------|--|-----------------------------|------------|----------------------|-------------|--------------------|---------------|
| Amps | Poles and Wires | Receptacle/ Connector Configuration* | Maximum Voltage AC/DC | Receptacle | Plug | Connector | Back Boxes | Angle Adapter |
| 200 | 4P 5W | | 600/250 | M5200RS1 | M5200PS1 | M5200CS1 | MB2003W MB2004W | AA20045 |

Note: *CAUTION: To avoid electrical shock, review premises carefully and DO NOT use if Pin and Sleeve configuration (design) is already in a circuit having a rating differing from the rating of this device.

**While in use or with cover closed.

†Consult factory.

See page AA-19 for corrosion resistant cord sets.

TYPE 4X**

| | | Rating | | "Reve | rsed Service" Style I | Devices | Replacement Interiors | | |
|------|-----------------------|--|-----------------------------|--------------|-----------------------|--------------|---------------------------|------------------------|--|
| Amps | Poles and Wires | Receptacle/ Connector Configuration* | Maximum Voltage AC/DC | Receptacle | Plug | Connector | Connector & Receptacle | Plug | |
| 30 | 2P 3W | | 600/250 | HBL330RS1WR | HBL330PS1WR | HBL330CS1WR | IN330MS1 | IN330FS1 | |
| | 3P 4W | | 600/250 | HBL430RS1WR | HBL430PS1WR | HBL430CS1WR | IN430MS1 | IN430FS1 | |
| | 4P 5W | | 600/250 | HBL530RS1WR | HBL530PS1WR | HBL530CS1WR | IN530MS1 | IN530FS1 | |
| 60 | 2P 3W | | 600/250 | HBL360RS1WR | HBL360PS1WR | HBL360CS1WR | IN360MS1 | IN360FS1 | |
| | 3P 4W | | 600/250 | HBL460RS1WR | HBL460PS1WR | HBL460CS1WR | IN460MS1 | IN460FS1 | |
| | 4P 5W | | 600/250 | HBL560RS1WR | HBL560PS1WR | HBL560CS1WR | IN560MS1 | IN560FS1 | |
| 100 | 2P 3W | | 600/250 | HBL3100RS1WR | HBL3100PS1WR | HBL3100CS1WR | IN3100MS1 | IN3100FS1 | |
| | 3P 4W | | 600/250 | HBL4100RS1WR | HBL4100PS1WR | HBL4100CS1WR | IN4100MS1 | IN4100FS1 | |
| | 4P 5W | | 600/250 | HBL5100RS1WR | HBL5100PS1WR | HBL5100CS1WR | IN5100MS1 | IN5100FS1 | |
| 200 | 3P 4W | | 600/250 | HBL4200RS1WR | HBL4200PS1WR | HBL4200CS1WR | IN4200MS1 [†] | IN4200FS1 [†] | |
| | 4P 5W | | 600/250 | HBL5200RS1WR | HBL5200PS1WR | HBL5200CS1WR | IN5200MS1 [†] | IN5200FS1 [†] | |
| | | Rating | | "Rever | sed Service" Style II | Devices | Replaceme | ent Interiors | |
| Amps | Poles and Wires | Receptacle/ Connector Configuration* | Maximum Voltage AC/DC | Receptacle | Plug | Connector | Connector & Receptacle | Plug | |
| 30 | 2P 3W | | 600/250 | HBL330RS2WR | HBL330PS2WR | HBL330CS2WR | IN330MS2 | IN330FS2 | |
| | 3P 4W | | 600/250 | HBL430RS2WR | HBL430PS2WR | HBL430CS2WR | IN430MS2 | IN430FS2 | |
| 60 | 2P 3W | | 600/250 | HBL360RS2WR | HBL360PS2WR | HBL360CS2WR | IN360MS2 | IN360FS2 | |
| | 3P 4W | | 600/250 | HBL460RS2WR | HBL460PS2WR | HBL460CS2WR | IN460MS2 | IN460FS2 | |
| 100 | 2P 3W | | 600/250 | HBL3100RS2WR | HBL3100PS2WR | HBL3100CS2WR | IN3100MS2 | IN3100FS2 | |
| | 3P 4W | | 600/250 | HBL4100RS2WR | HBL4100PS2WR | HBL4100CS2WR | IN4100MS2 | IN4100FS2 | |
| 200 | 2P 3W | | 600/250 | HBL3200RS2WR | HBL3200PS2WR | HBL3200CS2WR | IN3200MS2 [†] | IN3200FS2 [†] | |
| | 3P 4W | | 600/250 | HBL4200RS2WR | HBL4200PS2WR | HBL4200CS2WR | IN4200MS2 [†] | IN4200FS2 [†] | |

| | | Rating | | "Reversed S | Service" Corrosion Res | Accessories | | |
|------|-----------------------|--|-----------------------------|-------------|------------------------|-------------|--------------------|---------------|
| Amps | Poles and Wires | Receptacle/ Connector Configuration* | Maximum Voltage AC/DC | Receptacle | Plug | Connector | Back Boxes | Angle Adapter |
| 200 | 4P 5W | | 600/250 | M5200BS1R | M5200CS1R | - | MB2003W MB2004W | AA20045 |

Note: *CAUTION: To avoid electrical shock, review premises carefully and DO NOT use if Pin and Sleeve configuration (design) is already in a circuit having a rating differing from the rating of this device.

**While in use or with cover closed.

†Consult factory.

See page AA-19 for corrosion resistant cord sets.







MB304W



MB601003W



MB601006W



MB2003W







Insulgrip Pin and Sleeve Metallic Back Boxes

Hubbell manufactures an extensive line of back boxes for use with UL 1686 Pin and Sleeve devices. Each back box is designed to give the user the maximum amount of wiring room while achieving grounding to metallic conduit.

Metallic 30° Angle Back Box*

| Description | Amps | NPT Hub Size | Catalog Number |
|---------------------------|------|--------------|----------------|
| Back box for 30A devices. | 30 | 3⁄4" | MB301W |
| | 30 | 1" | MB302W |

Metallic 15° Angle Back Box*

| Description | Amps | NPT Hub Size | Catalog Number |
|---------------------------|------|--------------|----------------|
| Back box for 60A devices. | 60 | 1" | MB601W |
| | 60 | 11⁄4" | MB602W |
| | 60 | 11/2" | MB603W |

Metallic Feed-Thru Back Box*

| metallie i eea illia Bat | | | |
|----------------------------|------|--------------|----------------|
| Description | Amps | NPT Hub Size | Catalog Number |
| Straight feed-thru box for | 30 | 3⁄4" | MB303W |
| 30A devices. | 30 | 1" | MB304W |
| Straight feed-thru box for | 60 | 1" | MB604W |
| 60A devices. | 60 | 11⁄4" | MB605W |
| | 60 | 11/2" | MB606W |

Metallic Four-Way Angle Back Box*

| Description | Amps | NPT Hub Size | Catalog Number |
|--|--------|--------------|----------------|
| Four-way 15° angle box for | 60/100 | 11⁄4" | MB601002W |
| 60 and 100A devices. | 60/100 | 11⁄2" | MB601003W |
| | 60/100 | 2" | MB601004W |
| Four-way 45° angle box for | 200 | 2" | MB2003W |
| 200A devices. | 200 | 21/2" | MB2004W |
| 45° Angle adapter only for 200A devices. | 200 | - | AA20045 |

Metallic Four-Way Feed-Thru 15° Angle Back Box*

| | • | | |
|-------------------------------|--------|--------------|----------------|
| Description | Amps | NPT Hub Size | Catalog Number |
| Four-way feed-thru, 15° angle | 60/100 | 11⁄4" | MB601006W |
| for 60 and 100A devices. | 60/100 | 11⁄2" | MB601007W |
| | 60/100 | 2" | MB601008W |

Note: *These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

Replacement Cord Clamp and Locking Ring

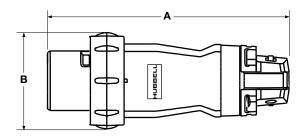
| Description | Used on | Cord Clamp Catalog Number | Locking Ring Catalog Number |
|-------------------------------------|---------------------------------|------------------------------|--------------------------------|
| Fits all 30A plugs and connectors. | All 3, 4, 5 wire | CC3430 | ILR1** |
| Fits all 60A plugs and connectors. | 4 wire (Style 2) and all 5 wire | CC60 | ILR2** |
| | All 3 wire and 4 wire (Style 1) | CC60 | ILR3** |
| Fits all 100A plugs and connectors. | 4 wire (Style 2) and all 5 wire | CC100 | ILR4** |
| | All 3 wire and 4 wire (Style 1) | CC100 | ILR5** |
| Fits all 200A plugs and connectors. | All 3, 4, 5 wire | CC201 | - |
| Note: **Locking Ring only. | | | |

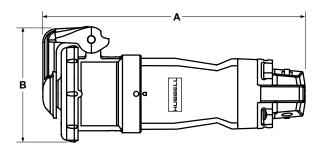
Liquidtight Adapters

| Rating of Hubbell Pin and Sleeve Device | Liquidtight Conduit Size | Hubbell Liquidtight Adapter | Optional Kellems Liquidtight Conduit Grip |
|--|-----------------------------|--------------------------------|--|
| 30 Amp | 1⁄2" NPT | SAB12 | 074093402 |
| | 34" NPT | SAB34 | 074093403 |
| | 1" NPT | SAB100 | 074093404 |
| 60 Amp | 1" NPT | SAC100 | 074093404 |
| | 11/4" NPT | SAC125 | 074093405 |
| 100 Amp | 11/4" NPT | SAD125 | 074093405 |
| | 11/2" NPT | SAD150 | 074093406 |

HUBBELL[®] Wiring Device-Kellems

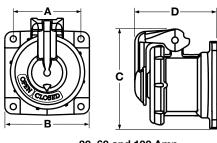
| Plug | Plug Dimensions | | | | | | nector Body | Dimensi | ons | | |
|------|--------------------|--------------|-------------|-------------|------------------------|------|--------------------|--------------|------------|----------------|-------------------------|
| | | Α | | В | | | | A | | в | |
| Amps | Type Style I | Style II | Style I | Style II | Cord Grip Range | Amps | Type Style I | Style II | Style I | Style II | Cord Grip Range |
| 30 | 330P 7.53" (191) | 7.53" (191) | 3.00" (76) | 3.00" (76) | .375-1.20" (9.5-30.5) | 30 | 330C 8.38" (213) | 8.38" (213) | 3.74" (95) | 3.74" (95) | .375-1.20" (9.5-30.5) |
| | 430P 7.53" (191) | 7.53" (191) | 3.00" (76) | 3.00" (76) | .375-1.20" (9.5-30.5) | | 430C 8.38" (213) | 8.38" (213) | 3.74" (95) | 3.74" (95) | .375-1.20" (9.5-30.5) |
| | 530P 7.53" (191) | | 3.00" (76) | | .375-1.20" (9.5-30.5) | | 530C 8.38" (213) | | 3.74" (95) | | .375-1.20" (9.5-30.5) |
| 60 | 360P 9.40" (239) | 9.40" (239) | 3.40" (86) | 3.40" (86) | .500-1.45" (12.7-36.8) | 60 | 360C 9.90" (251) | 9.90" (251) | 3.50" (89) | 3.50" (89) | .500-1.45" (12.7-36.8) |
| | 460P 9.40" (239) | 9.40" (239) | 3.40" (86) | 3.70" (94) | .500-1.45" (12.7-36.8) | | 460C 9.90" (251) | 10.10" (256) | 3.50" (89) | 3.80" (96) | .500-1.45" (12.7-36.8) |
| | 560P 9.40" (239) | | 3.70" (94) | | .500-1.45" (12.7-36.8) | | 560C 10.10" (256) | | 3.80" (96) | | .500-1.45" (12.7-36.8) |
| 100 | 3100P 10.70" (272) | 10.70" (272) | 3.70" (94) | 3.70" (94) | .925-1.94" (27.0-49.3) | 100 | 3100C 11.70" (297) | 11.70" (297) | 4.50" (114 |)4.50" (114 |).925-1.94" (27.0-49.3) |
| | 4100P 10.70" (272) | 10.90" (277) | 3.70" (94) | 4.00" (102) | .925-1.94" (27.0-49.3) | | 4100C 11.70" (297) | 11.90" (302) | 4.50" (114 |)4.70" (119) |).925-1.94" (27.0-49.3) |
| | 5100P 10.90" (277) | | 4.00" (102) | | .925-1.94" (27.0-49.3) | | 5100C 11.90" (302) | | 4.70" (119 |) | .925-1.94" (27.0-49.3) |
| 200 | 3200P | 11.13" (282) | | 6.35" (161) | 1.00-2.50" (25.4-63.5) | 200 | 3200C | 13.65" (346) | | 7.00 (177) | 1.00-2.50" (25.4-63.5) |
| | 4200P 11.13" (282) | 11.13" (282) | 6.35" (161) | 6.70" (170) | 1.00-2.50" (25.4-63.5) | | 4200C 13.65" (346) | 13.65" (346) | 7.00" (177 | ')7.39 (187) | 1.00-2.50" (25.4-63.5) |
| | 5200P 11.13" (282) | | 6.70" (170) | | 1.00-2.50" (25.4-63.5) | | 5200C 13.65" (346) | | 7.39" (187 | [^]) | 1.00-2.50" (25.4-63.5) |

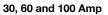




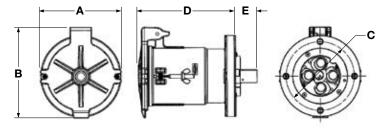
Receptacle Dimensions

| | | | Α | | В | | С | | D | | E |
|------|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| Amps | Туре | Style I | Style II | Style I | Style II |
| 30 | 330R | 2.72" (69) | 2.72" (69) | 3.40" (86) | 3.40" (86) | 3.89" (99) | 3.89" (99) | 3.19" (81) | 3.19" (81) | 1.37" (35) | 1.37" (35) |
| | 430R | 2.72" (69) | 2.72" (69) | 3.40" (86) | 3.40" (86) | 3.89" (99) | 3.89" (99) | 3.19" (81) | 3.19" (81) | 1.37" (35) | 1.37" (35) |
| | 530R | 2.72" (69) | | 3.40" (86) | | 3.89" (99) | | 3.19" (81) | | 1.37" (35) | |
| 60 | 360R | 3.50" (89) | 3.50" (89) | 4.25" (108) | 4.25" (108) | 4.66" (118) | 4.66" (118) | 4.42" (112) | 4.42" (112) | 1.54" (39) | 1.54" (39) |
| | 460R | 3.50" (89) | 3.50" (89) | 4.25" (108) | 4.25" (108) | 4.66" (118) | 4.66" (118) | 4.42" (112) | 4.42" (112) | 1.54" (39) | 1.54" (39) |
| | 560R | 3.50" (89) | | 4.25" (108) | | 4.66" (118) | | 4.42" (112) | | 1.54" (39) | |
| 100 | 3100R | 3.50" (89) | 3.50" (89) | 4.25" (108) | 4.25" (108) | 4.66" (118) | 4.70" (119) | 5.30" (135) | 5.30" (135) | 1.54" (39) | 1.54" (39) |
| | 4100R | 3.50" (89) | 3.50" (89) | 4.25" (108) | 4.25" (108) | 4.66" (118) | 4.70" (119) | 5.30" (135) | 5.30" (135) | 1.54" (39) | 1.54" (39) |
| | 5100R | 3.50" (89) | | 4.25" (108) | | 4.66" (118) | | 5.30" (135) | | 1.54" (39) | |
| 200 | 3200R | | 6.50" (165) | | 7.00" (177) | | 5.63" (143) | | 7.76" (197) | | .99" (25) |
| | 4200R | 6.50" (165) | 6.90" (170) | 7.00" (177) | 7.39" (187) | 5.63" (143) | 5.63" (143) | 7.76" (197) | 7.76" (197) | .99" (25) | .99" (25) |
| - | 5200R | 6.90" (170) | | 7.39" (187) | | 5.63" (143) | | 7.76" (197) | | .99" (25) | |





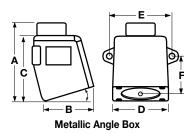
E



200 Amp

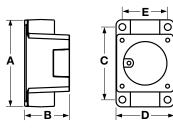
Dimensions in Inches (mm)

Metallic Angle Back Box

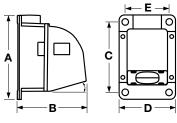


| Description | NPT Hub Size | A Inch (mm) | B Inch (mm) | C Inch (mm) | D Inch (mm) | E Inch (mm) | F Inch (mm) | Catalog Number |
|-------------------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|
| 30° Angle back box for 30A | 3⁄4" | 4.87" (124.0) | 2.94" (75.0) | 4.02" (102.0) | 3.40" (86.0) | 4.25" (108.0) | 2.12" (54.0) | MB301W |
| devices. | 1" | 4.87" (124.0) | 2.94" (75.0) | 4.02" (102.0) | 3.40" (86.0) | 4.25" (108.0) | 2.12" (54.0) | MB302W |
| 15° Angle back box for 60A | 1" | _ | 4.80" (121.9) | _ | - | 5.25" (133.4) | 2.69" (68.3) | MB601W |
| devices. | 11⁄4" | - | 4.80" (121.9) | - | - | 5.25" (133.4) | 2.69" (68.3) | MB602W |
| | 11⁄2" | _ | 4.80" (121.9) | - | _ | 5.25" (133.4) | 2.69" (68.3) | MB603W |

Metallic Feed-Thru Back Box



Metallic Feed-Thru Box



Metallic Four-Way Angle Box

| Description | NPT Hub Size | A Inch (mm) | B Inch (mm) | C Inch (mm) | D Inch (mm) | E Inch (mm) | F Inch (mm) | Catalog Number |
|------------------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|
| Back box for 30A devices. | 3⁄4" | 5.35" (136.0) | 2.91" (74.0) | 4.53" (115.0) | 3.59" (91.0) | 2.62" (67.0) | _ | MB303W |
| | 1" | 5.35" (136.0) | 2.91" (74.0) | 4.53" (115.0) | 3.59" (91.0) | 2.62" (67.0) | - | MB304W |
| Back box for 60A devices. | 1" | 6.50" (165.1) | 3.80" (97.0) | 5.75" (146.1) | 4.50" (114.3) | 3.50" (88.9) | _ | MB604W |
| | 11⁄4" | 6.50" (165.1) | 3.80" (97.0) | 5.75" (146.1) | 4.50" (114.3) | 3.50" (88.9) | - | MB605W |
| | 1½" | 6.50" (165.1) | 3.80" (97.0) | 5.75" (146.1) | 4.50" (114.3) | 3.50" (88.9) | _ | MB606W |

Metallic Four-Way Angle Back Box

| Description | NPT Hub Size | A Inch (mm) | B Inch (mm) | C Inch (mm) | D Inch (mm) | E Inch (mm) | F Inch (mm) | Catalog Number |
|---|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------|
| 15° Angle four- way box for | 1¼" | 7.92" (201.0) | 8.52" (216.0) | 7.00" (178.0) | 6.14" (156.0) | 4.88" (124.0) | - | MB601002W |
| 60 and 100A devices. | 1½" | 7.92" (201.0) | 8.52" (216.0) | 7.00" (178.0) | 6.14" (156.0) | 4.88" (124.0) | - | MB601003W |
| - | 2" | 7.92" (201.0) | 8.52" (216.0) | 7.00" (178.0) | 6.14" (156.0) | 4.88" (124.0) | - | MB601004W |
| 45° Angle four- way box for | 2" | 10.82" (274.8) | 9.86" (250.4) | 9.50" (241.3) | 8.17" (207.5) | 6.75" (171.5) | - | MB2003W |
| 200A devices. | 21⁄2" | 10.82" (274.8) | 9.86" (250.4) | 9.50" (241.3) | 8.17" (207.5) | 6.75" (171.5) | - | MB2004W |
| 45° Angle adapter only for 200A devices. | - | 8.00" (203.2) | 6.00" (152.4) | 7.00" (178.0) | 8.00" (203.2) | 7.00" (178.0) | - | AA20045 |

Metallic Four-Way Feed-Thru 15° Angle Back Box

| Motallic Food-Th | |
|------------------|--|

Metallic Feed-Thru Angle Box

| | | | • | | | | |
|--------------------|--------------------------------------|--|---|---|---|--|--|
| NPT Hub Size | A Inch (mm) | B Inch (mm) | C Inch (mm) | D Inch (mm) | E Inch (mm) | F Inch (mm) | Catalog Number |
| 1¼" | 7.98" (202.7) | 8.55" (217.2) | 7.00" (178.0) | 6.14" (156.0) | 4.88" (124.0) | _ | MB601006W |
| 1½" | 7.98" (202.7) | 8.55" (217.2) | 7.00" (178.0) | 6.14" (156.0) | 4.88" (124.0) | - | MB601007W |
| 2" | 7.98" (202.7) | 8.55" (217.2) | 7.00" (178.0) | 6.14" (156.0) | 4.88" (124.0) | _ | MB601008W |
| | NPT Hub Size 11/4" 11/2" | NPT A Hub Inch Size (mm) 1¼" 7.98" (202.7) 1½" 1½" 7.98" (202.7) 2" 2" 7.98" | NPT A B Hub Inch (mm) Inch (mm) 1¼" 7.98" 8.55" (202.7) 1½" 7.98" 8.55" (202.7) 1½" 7.98" 8.55" (202.7) 2" 7.98" 8.55" | NPT Hub Size A Inch (mm) B Inch (mm) C Inch (mm) 1¼" 7.98" 8.55" 7.00" 1¼" 7.98" 8.55" 7.00" 1½" 7.98" 8.55" 7.00" 1½" 7.98" 8.55" 7.00" 1½" 7.98" 8.55" 7.00" 2" 7.98" 8.55" 7.00" | NPT Hub Size A (mm) B Inch (mm) C Inch (mm) D Inch (mm) 1¼" 7.98" 8.55" 7.00" 6.14" (202.7) (217.2) (178.0) (156.0) 1½" 7.98" 8.55" 7.00" 6.14" (202.7) (217.2) (178.0) (156.0) 1½" 7.98" 8.55" 7.00" 6.14" (202.7) (217.2) (178.0) (156.0) 2" 7.98" 8.55" 7.00" 6.14" | $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ | $\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ |

Note: These boxes are cast aluminum, suitable for IP54 requirements and are finished with enamel paint.

Dimensions in Inches (mm)

G-38

Materials (30, 60, 100, and 200 Amp)

| Materials (30, 60, 100, and | 1200 Ampj |
|--|---|
| Plug | Material |
| Housing | PBT (200A Aluminum) |
| Plug Shroud | Aluminum |
| Cord Clamps | PBT (200A Aluminum) |
| Clamp Nut | Nickel Plated Brass |
| Gland Cap | PBT |
| Gland | Neoprene |
| O-Rings, Gaskets & Seals | Neoprene |
| Contact Carrier | Thermoset Polyester |
| Retainer | Thermoset Polyester |
| Sleeves | Brass (M-Series - Nickel-plated |
| Devi Terreir el | tellurium copper) |
| Box Terminal | Heat Treated & Zinc Plated Steel |
| Screws (Terminal, Assembly & Set) Ground Standoff | Stainless Steel (300 Series) Brass |
| Ground Standoll Ground Bracket | |
| Locking Ring | Nickel Plated Spring Bronze Epoxy Painted Aluminum |
| | Epoxy Fainted Aldminum |
| Connector Body | DDT (000 Amon Alumainum) |
| Housing Connector Shroud | PBT (200 Amp Aluminum) Epoxy Painted Aluminum |
| Connector Shroud | PBT |
| Clamp Nut | Nickel Plated Brass |
| Gland Cap | PBT (200A Aluminum) |
| Gland | Neoprene |
| O-Rings, Gaskets & Seals | Neoprene |
| Contact Carrier | Thermoset Polyester |
| Retainer | Thermoset Polyester |
| Pin | Brass (M-Series - Nickel-plated |
| 1 11 | tellurium copper) |
| Pin Spring | Beryllium Copper |
| Box Terminal | Heat Treated & Zinc Plated Steel |
| Screws (Terminal, Assembly & Set) | Stainless Steel (300 Series) |
| Ground Standoff | Brass |
| Ground Bracket | Nickel Plated Spring Bronze |
| Cover | Epoxy Painted Aluminum |
| Cover Arm | Epoxy Painted Aluminum |
| Spring Guide | Stainless Steel (300 Series) |
| Springs (Arm & Wave) | Stainless Steel (300 Series) |
| Spring Washer | Stainless Steel (300 Series) |
| Hinge Bushing | Aluminum |
| Rivet | Aluminum |
| Receptacle | |
| Housing/Flange | Epoxy Painted Aluminum |
| O-Rings, Gaskets & Seals | Neoprene |
| Contact Carrier | Thermoset Polyester |
| Retainer | Thermoset Polyester |
| Pin | Brass (M-Series - Nickel-plated |
| | tellurium copper) |
| Pin Spring | Beryllium Copper |
| Box Terminal | Heat Treated & Zinc Plated Steel |
| Screws (Terminal, Assembly & Set) | Stainless Steel (300 Series) |
| Ground Standoff | Brass |
| Ground Bracket | Steel |
| Cover | Epoxy Painted Aluminum |
| Cover Arm | Epoxy Painted Aluminum |
| Spring Guide | Stainless Steel (300 Series) |
| Springs (Arm & Wave) | Stainless Steel (300 Series) |
| Spring Washer | Stainless Steel (300 Series) |
| Hinge Bushing | Aluminum |
| Rivet | Aluminum |
| Hinge Bushing | Aluminum |
| HIVEL | Aluminum |

Typical Specification

| Manufacturer's ID | Hubbell HBL430PS2W |
|--|---|
| Description | Plug, Power Supply |
| Electrical Type | 3 Pole + Earth |
| Max. Rating | 30 Amp, 600V AC, 250V DC, 50-400Hz |
| Configuration | UL 1686, Watertight, C1 Configuration |
| Certification | UL Listed, UL Standard 1682, UL 50, and UL 1010 (plugs only), CSA Certified to CSA Spec. C22.2 No. 182.1, No. 94 and No. 159 (plugs only), UL Listed and CSA Certified Type 4X |
| Performance | |
| Electrical | |
| Dielectric Voltage | Withstands 3,000V AC. |
| Max. Working Voltage | 600V AC RMS (i.e., minimum creepage and clearance distance of 6.4 millimeters, per UL 1682). |
| Current Interrupting | Certified for current interrupting at full rated current. |
| Temperature Rise | Max. 30°C temperature rise at full rated current after 50 cycles of overload at 150% of rated current. |
| Endurance | Up to 1,000 connect and disconnect cycles at full rated current and voltage. |
| Mechanical | |
| Impact Resistance | Per CSA C22.2, No. 182.1, UL 1682. |
| Cord Grip Cable Retention | Per CSA C22.2, No. 182.1, UL 1682. |
| Cord Accommodation | Round portable service cords of diameters commensurate with the device rating as defined in UL. Standard 62, CSA C22.2 No. 49 and the harmonized <har> European Standards.</har> |
| Terminal Identification | Terminals identified in accordance with UL 1686 (1, 2, 3, Green). |
| Product Identification | Identification and ratings are permanently fastened to the device housing. |
| Environmental | |
| Hose Down & Moisture Resistance | Type 3, 4, 4X per UL 50E and CSA 22.2, No. 94. |
| Flammability (Enclosure) | UL 94V-0 and CSA C22.2 No. 0.17. |
| Operating Temperatures | Maximum Continuous 75°C; Minimum -40°C without impact -25° with impact. |
| Hazardous Location (30, 60 & 100A) (plug only) | Class I, Division I & II, Groups B, C & D and Class II, Division I & II, Groups F & G per UL 1010 & CSA 22.2, No. 159. |
| Materials | |
| Housings | PBT 357 (200A Aluminum). |
| All Other Materials | Resistant to corrosion and chemical attack. |
| Watertight Applic | ation Guide |

| Industry | Watertight. |
|---------------------|--|
| Agriculture | Outdoor for fans, heaters, pumps, etc. |
| Chemical Processing | Where subject to water, corrosion. |
| Construction | Outdoors subject to severe weather conditions. |
| Entertainment | Outdoors subject to severe weather. |
| Food Processing | Where subject to water, corrosion. |
| Food Service | Areas subject to wash downs & heavy cleaning. |
| Light Manufacturing | Subjected to cleaning, solvents & chemicals. |
| Manufacturing | Where subject to water, corrosion. |
| Military | Outdoor construction or maintenance. |

Features and Benefits

Style II Insulgrip[®] Mechanical Interlocks

Hubbell Circuit-Lock[®] Pin and Sleeve Mechanical Interlocks are a revolutionary design that incorporates a disconnect switch and pin and sleeve receptacle in a compact non-metallic unit. These devices offer maximum safety by preventing users from mating or breaking a circuit under load—Hubbell's interlock mechanism detects the presence of a plug and prevents it from being removed when the switch is in the "ON" position.

It features a high visibility red handle that can be locked to meet OSHA lockout/tagout regulations, and the enclosure door can be locked to prevent unauthorized access. The rugged, corrosion-resistant Type 4X PBT enclosure features adjustable mounting feet for flexible installation, while the receptacle's spring-loaded cover with gasket is dust tight and provides a watertight seal when turned and locked.

The patented Plug-Check[™] mechanism detects the presence of the plug. It operates as a clutch to engage the handle with the switch and captures the plug. This action prevents the plug from being removed until the switch is turned OFF.





Housing Design

- Non-metallic enclosure meets UL 50E Type 4X (watertight), 12 (dust-tight) and IP66 suitability requirements. Enclosure is molded of rugged thermoplastic PBT to resist abuse, corrosion and enhance safety. All external hardware is stainless steel
- Stainless steel 1/4 turn door fasteners for quick, easy access to fuses



Interior Design

- Compact Fused Disconnect Switch accepts Class "J" fuses. Fuse holders are top mounted for easy access
- The switch accepts auxiliary contacts for control circuit applications including the ON/OFF control of remote pilot lights or signal for programmable controllers



Safety

- High visibility red handle can be locked in the OFF position as a method of compliance with OSHA lockout requirements. Accepts up to a ⁵/₁₆ inch padlock shackle
- Replaceable spring-loaded receptacle liftcover with gasket ensures dust tight rating; liftcover provides watertight seal when turned and locked



Enclosure Door

- Removable door for ease of wiring and installation
- Enclosure door can be locked to prevent unauthorized access. Additionally, if the switch is ON, the door cannot be opened



Contact Carrier

- Thermoset polyester contact carrier provides resistance to electrical tracking and withstands higher temperatures
- Thermoset properties provide excellent dimensional stability, low moisture absorption and superior dielectric strength

Installation

- Three molded-in conduit drill points are located on the top, bottom and back surface of enclosure. Conduit hub provided: 30A 1 in. NPT, 60A 1¼ in. NPT
- Conduit hub and adjustable mounting feet (4) are ductile to allow mounting on irregular surfaces

Style II - Fused

| Rating | | | | Fused Insulgrip [®] Mechanical Interlocks | | |
|--------|-----------------------|--|-----------------------------|--|-------------|--|
| Amps | Poles and Wires | Receptacle/ Connector Configuration* | Maximum Voltage AC/DC | Mechanical Interlock | Mating Plug | |
| 30 | 3P 4W | | 600/250 | HBL430MIFS2W | HBL430PS2W | |
| 60 | 3P 4W | | 600/250 | HBL460MIFS2W | HBL460PS2W | |

Style II - Unfused

| Rating | | | | Unfused Insulgrip [®] | Unfused Insulgrip [®] Mechanical Interlocks | | |
|--------|-----------------------|--|-----------------------------|--------------------------------|--|--|--|
| Amps | Poles and Wires | Receptacle/ Connector Configuration* | Maximum Voltage AC/DC | Mechanical Interlock | Mating Plug | | |
| | | | | | | | |
| 30 | 3P 4W | | 600/250 | HBL430MIS2W | HBL430PS2W | | |
| 60 | 3P 4W | | 600/250 | HBL460MIS2W | HBL460PS2W | | |

Note: 30A – 1 inch NPT hub supplied; 60A – 11/4 inch hub supplied.

*CAUTION: To avoid electrical shock, review premises carefully and DO NOT use if Pin and Sleeve configuration (design) is already in a circuit having a rating differing from the rating of this device.

**While in use or with cover closed.

Replacement Auxiliary Contacts

| Description | Black Style Switch | Gray Style Switch |
|--|--------------------|-------------------|
| Auxiliary contact, normally open, A600 pilot duty, break before break. | ACFSNO | HBLACFSNO |
| Auxiliary contact, normally closed, A600 pilot duty, break before break. | ACFSNC | HBLACFSNC |
| | | |

Note: Auxiliary contacts are specific to the style switch noted and are NOT interchangeble. All new installations are shipped with gray style switch.

Replacement Switches

| Description | Gray Style Switch |
|--|-------------------|
| For 30A fused switches. | HBL30MIFRS |
| For 60A fused switches. Gray Style switch will retro fit Black Style switch. | HBL60MIFRS |
| For 30A unfused switches. | HBL30MISRS |
| For 60A unfused switches. Gray Style switch will retro fit Black Style switch. | HBL60MISRS |

Watertight Closure Plug Kits

| Description | Catalog Number |
|---|----------------|
| For 30A Circuit-Lock [®] unfused and fused Pin and Sleeve mechanical interlocks. | MICPK30 |
| For 60 and 100A Circuit-Lock [®] unfused and fused Pin and Sleeve mechanical interlocks. | MICPK60 |

Replacement Mounting Feet

Description Catalog Number Replacement mounting feet and screws for 30 and 60A fused mechanical interlocks. HBLRFT2^A Note: ^Package of 10 feet and 10 screws.



HBL430MIFS2W

Gray Style Switch



HBLACFSNO

HBL30MIFRS

Black Style Switch



ACFSNO





HBLRFT2

TYPE 4X**

c(UL)us

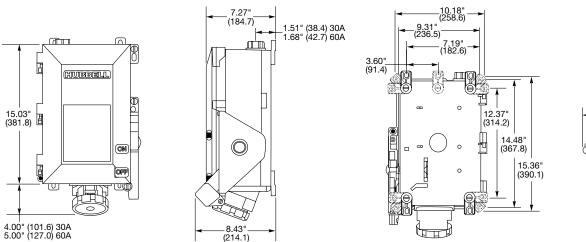
| Typical Specifications | | Performance | | | |
|--|---|-------------------------|---|--|--|
| Manufacturer's Identification Hubbell HBL460MIFS2W | | Electrical | | | |
| Description | Fused Insulgrip [®] Pin and Sleeve | Dielectric Voltage | Withstands 3,000VAC Min. | | |
| | Mechanical Interlock | Max. Working Voltage | 250VDC/600VAC. | | |
| Electrical Type | 3 Pole + Earth | Current Interrupting | Certified for current interrupting at full rated | | |
| Rating | 60A, 250VDC/600VAC | | current and voltage. | | |
| Configuration | Per UL 1686 C1 | Short Circuit | Suitable for use on a circuit capable of | | |
| Enclosure Type (UL 50E) | Indoor & Outdoor - 4X (Watertight, Washdown) | Withstand Rating | delivering not more than 200,000 RMS | | |
| | Indoor - 12 (Dust Tight, Falling Dirt) | | symmetrical amperes at the voltage rating | | |
| Ingress Protection | IP66 Suitability | | of receptacle. | | |
| Certification | UL Listed for US and Canada | _Operations | Mechanical 10,000 cycles minimum. | | |
| | ed switched control of a plug connected load and feature to prevent the plug from being disconnected | Mechanical | | | |
| or the door from opening while the receptacle is energized. The switch cannot be turned on until the plug is fully inserted. | | Impact Resistance | In accordance with UL 746C. | | |
| | | Terminal Identification | In accordance with UL, CSA and | | |
| | | | international conventions. | | |
| | | Product Ratings | Ratings are part of the external label and | | |
| | | Mounting | molded into the receptacle housing. | | |
| Materials | | Mounting | External adjustable feet. | | |
| Part | Material | Environmental | | | |
| Base. Door and Handle | PBT | -Moisture Resistance | Indoor & Outdoor - 4X (Watertight, Washdown); | | |
| Conduit Hub | Zinc, 30A – 1 in., 60A – 1¼ in. NPT | | Indoor - 12 (Dust-tight, Falling dirt). | | |
| Enclosure Gasket | Neoprene | Ingress Protection | IP66 Suitability. | | |
| and Shaft Seal | | Flammability | UL94-5VA and V-0 Classification. | | |
| Shaft and Mounting Inserts Brass | | Operating Temperatures | Max. Continuous +60°C; | | |
| Ground Plate | Galvanized Steel | UV Resistance | Min. Continuous -40°C w/o impact. | | |
| Enclosure Screws | Stainless Steel | UV NESISIANCE | All exposed insulating materials are UV stabilized. | | |
| and Hinge Spring | | Fuse Types | UL Listed Class "J". | | |
| Hinge Pin | nge Pin Nickel-Plated Brass | | CSA Certified HRCI-J. | | |
| Contact Carrier Thermoset Polyester | | | | | |

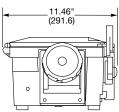
Horsepower Ratings

| 30A Horsepower Ratings | | 60A Horsepower Ratings | | | | |
|------------------------|----------|------------------------|--------------------------------|-----|----|--|
| 3 Phase A.C. | Standard | Maximum* | 3 Phase A.C. Standard Maximum* | | | |
| 200-240V | 3 | 7.5 | 200-240V | 7.5 | 15 | |
| 480V | 5 | 15 | 480V | 15 | 30 | |
| 600V | 7.5 | 20 | 600V | 15 | 50 | |

Note: *Requires time delay fuses.

Dimensions





Note: 30A – 1 inch NPT hub supplied; 60A – 1¼ inch hub supplied.

Dimensions in Inches (mm)

Features and Benefits

Hazardous Location Non-Fused Mechanical Interlocks and Plugs

Hubbell's Hazardous Location Line of Non-Fused UL 1686 Mechanical Interlock Disconnect Switches are typically used for applications with the presence of flammable gasses or vapors, ignitable dusts and fibers. They are also suitable for use in outdoor or indoor damp, wet and dirty locations or in areas where frequent wash downs, heavy rain, or water spray routinely occurs.

These switches are compact in size to reduce cost and make it easier to position on the wall or piece of equipment. The enclosures are made of copper-free aluminum and have a polyester/epoxy finish to prevent corrosion. The high visibility handles can be locked out to comply with OSHA lock out/tag out regulations.

VSQ Hazardous Location Ratings Class I, Div. 1 & 2, Groups B,C,D Class I, Zones I & 2, Groups IIB+H2, IIA Class II, Div. 1 & 2, Groups F & G Class III NEMA 3, 4, 4X, 7 (B,C,D), 9 (F,G)







Housing Design

- Copper-free aluminum construction with electrostatically applied polyester/ epoxy finish to prevent corrosion
- Compact NEMA 4X enclosure and footfrint allows easy installation in tight locations
- Feed-through construction



Internal Design

- Auxiliary contact (late-make early-break) contact rated 10 amp, 1/3 HP at 125/250V AC can be used for operating pilot lights or starter coils
- Internal switch horsepower rated as "suitable as a motor disconnect"



Safety

- Lockable handle to meet OSHA Lockout/Tagout regulations
- Large visible rotary handle with ON/OFF indicator allows a quick means of disconnecting power
- Handle mechanism is chemical resistant PBT thermoplastic



Plug Locking Ring

 NEMA 4X environmental rating with cover engaged or when mated with a 4X plug



Mechanism

- Plug and switch are interlocked. Switch cannot be turned ON without fully inserted plug Plug cannot be removed with switch in ON position
- Plug held in place when switch is OFF for convenience. Pull operated release mechanism



Fully Interchangeable

 Product is UL1686 and is fully interchangeable with other UL1686 configured and listed devices

Horsepower Ratings (VAC)*



| 30 and 60 Amp Non-Fused UL1686 Mechanical | Interlocks and Plugs |
|---|----------------------|
|---|----------------------|

| 6 | P. |
|---|----|
| c | US |

| Amp | Circuit | Mechanical Interlock | Metallic Plug | Insulgrip Plug |
|---------|---------|----------------------|---------------|----------------|
| 30 Amp | 2W 3P | HBLVSQ3023 | HBLVP3385 | HBL330PS2W |
| 600V AC | 3W 4P | HBLVSQ3034 | HBLVP3485 | HBL430PS2W |
| 60 AMP | 2W 3P | HBLVSQ6023 | HBLVP6385 | HBL360PS2W |
| 600V AC | 3W 4P | HBLVSQ6034 | HBLVP6485 | HBL460PS2W |

Note: Early break contact comes standard with mechanical interlocks.

HBLVSQ 30 Amp models come standard with 1 inch drilled and tapped conduit openings top and bottom plus two 1 inch x % inch reducers and one ¾ inch close-up plug for maximum flexibility. 60 amp models come with one 11/2 inch opening on top and bottom and one 11/2 inch close-up plug.

HBLVSQ3034



HBLVP3485



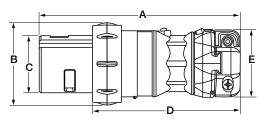
| Amp | Circuit | 120 | 240 | 480 | 600 | Catalog Number |
|--------|---------|-----|-----|-----|-----|----------------|
| 30 Amp | 1Ø | 2 | 5 | 10 | 15 | HBLVSQ3023 |
| | ЗØ | 3 | 7.5 | 15 | 20 | HBLVSQ3034 |
| 60 Amp | 1Ø | - | 10 | 15 | 20 | HBLVSQ6023 |
| | ЗØ | - | 10 | 25 | 30 | HBLVSQ6034 |

Note: *Internal switch only.

Dimensions

| Mechanical Interlocks | Α | В | С | D | Е | F |
|-----------------------|------------|-------------|-------------|------------|-----------|-------------|
| 30A | 5.75 (146) | 10.50 (267) | 9.75 (248) | 3.75 (95) | 3.13 (79) | 8.13 (206) |
| 60A | 8.13 (206) | 14.16 (360) | 11.28 (287) | 4.03 (102) | 2.50 (64) | 11.38 (289) |
| | | | | | | |
| Pluas | Δ | в | C | р | F | |

| Plugs | Α | В | С | D | E |
|-------------|------------|-----------|-----------|------------|-----------|
| 30A Both | 6.69 (170) | 3.00 (76) | 1.88 (48) | 5.38 (137) | 2.53 (64) |
| 60A, 3 Pole | 8.81 (224) | 3.38 (86) | 2.25 (57) | 6.50 (165) | 3.00 (76) |
| 60A, 4 Pole | 8.81 (224) | 3.69 (94) | 2.53 (64) | 6.50 (165) | 3.00 (76) |



| Wire Range | 30A | 60A | | |
|---------------|-----------------|-----------------|--|--|
| Reg. Stranded | #10 – #6 | #6 - #4 | | |
| Extra Flex | #10 – #8 | #6 - #4 | | |
| Grip Range | .55–1.2 (14–30) | .65–1.5 (16–38) | | |

Dimensions in Inches (mm)

www.hubbell-wiring.com