

IEC Pin and Sleeve Watertight Devices

20 and 30 Ampere – North American Ratings
16 and 32 Ampere – International Ratings



IP67
SUITABILITY

| Rating | | | | | Watertight Devices | | | | Accessories | | | Replacement Interiors | |
|--------|-----------------|---------------|---------------------|------------------------|--------------------|------------|------------|------------|--------------|------------------|--------------|-----------------------|-------------|
| Amps | Poles and Wires | Configuration | Recep./ Plug/ Inlet | AC Voltage | Receptacle | Plug | Connector | Inlet | Back Boxes | | Closure Caps | Recep./ Conn. | Plug/ Inlet |
| | | | | | | | | | Non-Metallic | Metallic | | | |
| 16 | 2P 3W | | | 100–130V | HBL316R4W | HBL316P4W | HBL316C4W | HBL316B4W† | BB2030N | BB201W BB301W | PC320 | IN320BF | IN320BM |
| | 2P 3W | | | 220–240V | HBL316R6W | HBL316P6W | HBL316C6W | HBL316B6W | BB2030N | BB201W BB301W | PC320 | IN320BF | IN320BM |
| | 3P 4W | | | 380–415V | HBL416R6W | HBL416P6W | HBL416C6W | HBL416B6W† | BB2030N | BB201W BB301W | PC420 | IN420DF | IN420DM |
| | 4P 5W | | | 220/380V 240/415V | HBL516R6W | HBL516P6W | HBL516C6W | HBL516B6W | BB2030N | BB201W BB301W | PC520 | IN520EF† | IN520EM |
| 20 | 2P 3W | | | 125V | HBL320R4W | HBL320P4W | HBL320C4W | HBL320B4W | BB2030N | BB201W BB301W | PC320 | IN320AF | IN320AM |
| | 2P 3W | | | 250V | HBL320R6W | HBL320P6W | HBL320C6W | HBL320B6W | BB2030N | BB201W BB301W | PC320 | IN320BF | IN320BM |
| | 2P 3W | | | 480V | HBL320R7W | HBL320P7W | HBL320C7W | HBL320B7W | BB2030N | BB201W BB301W | PC320 | IN320BF | IN320BM |
| | 3P 4W | | | 125/250V | HBL420R12W | HBL420P12W | HBL420C12W | HBL420B12W | BB2030N | BB201W BB301W | PC420 | IN420CF | IN420CM |
| | 3P 4W | | | 30 250V | HBL420R9W | HBL420P9W | HBL420C9W | HBL420B9W | BB2030N | BB201W BB301W | PC420 | IN420DF | IN420DM |
| | 3P 4W | | | 30 480V | HBL420R7W | HBL420P7W | HBL420C7W | HBL420B7W | BB2030N | BB201W BB301W | PC420 | IN420DF | IN420DM |
| | 3P 4W | | | 30 600V | HBL420R5W | HBL420P5W | HBL420C5W | HBL420B5W | BB2030N | BB201W BB301W | PC420 | IN420DF | IN420DM |
| | 4P 5W | | | 30Y 120/208V | HBL520R9W | HBL520P9W | HBL520C9W | HBL520B9W | BB2030N | BB201W BB301W | PC520 | IN520EF† | IN520EM |
| | 4P 5W | | | 30Y 277/480V | HBL520R7W | HBL520P7W | HBL520C7W | HBL520B7W | BB2030N | BB201W BB301W | PC520 | IN520EF† | IN520EM |
| | 4P 5W | | | 30Y 347/600V | HBL520R5W | HBL520P5W | HBL520C5W | HBL520B5W | BB2030N | BB201W BB301W | PC520 | IN520EF† | IN520EM |
| 30 | 2P 3W | | | 125V | HBL330R4W | HBL330P4W | HBL330C4W | HBL330B4W | BB2030N | BB201W BB301W | PC3430 | IN330AF | IN330AM |
| | 2P 3W | | | 250V | HBL330R6W | HBL330P6W | HBL330C6W | HBL330B6W | BB2030N | BB201W BB301W | PC3430 | IN330BF | IN330BM |
| | 2P 3W | | | 480V | HBL330R7W | HBL330P7W | HBL330C7W | HBL330B7W | BB2030N | BB201W BB301W | PC3430 | IN330BF | IN330BM |
| | 3P 4W | | | 125/250V | HBL430R12W | HBL430P12W | HBL430C12W | HBL430B12W | BB2030N | BB201W BB301W | PC3430 | IN430CF | IN430CM |
| | 3P 4W | | | 30 250V | HBL430R9W | HBL430P9W | HBL430C9W | HBL430B9W | BB2030N | BB201W BB301W | PC3430 | IN430DF | IN430DM |
| | 3P 4W | | | 30 480V | HBL430R7W | HBL430P7W | HBL430C7W | HBL430B7W | BB2030N | BB201W BB301W | PC3430 | IN430DF | IN430DM |
| | 3P 4W | | | 30 600V | HBL430R5W | HBL430P5W | HBL430C5W | HBL430B5W | BB2030N | BB201W BB301W | PC3430 | IN430DF | IN430DM |
| | 4P 5W | | | 30Y 120/208V | HBL530R9W | HBL530P9W | HBL530C9W | HBL530B9W | BB2030N | BB201W BB301W | PC530 | IN530EF | IN530EM |
| | 4P 5W | | | 30Y 277/480V | HBL530R7W | HBL530P7W | HBL530C7W | HBL530B7W | BB2030N | BB201W BB301W | PC530 | IN530EF | IN530EM |
| | 4P 5W | | | 30Y 347/600V | HBL530R5W | HBL530P5W | HBL530C5W | HBL530B5W | BB2030N | BB201W BB301W | PC530 | IN530EF | IN530EM |
| 32 | 2P 3W | | | 100–130V | HBL332R4W† | HBL332P4W† | HBL332C4W† | HBL332B4W† | BB2030N | BB201W BB301W | PC3430 | IN330BF | IN330BM |
| | 2P 3W | | | 220–240V | HBL332R6W | HBL332P6W | HBL332C6W | HBL332B6W | BB2030N | BB201W BB301W | PC3430 | IN330BF | IN330BM |
| | 3P 4W | | | 380–415V | HBL432R6W | HBL432P6W | HBL432C6W | HBL432B6W | BB2030N | BB201W BB301W | PC3430 | IN430DF | IN430DM |
| | 3P 4W | | | 380V 50Hz 440V 60Hz | HBL432R3W | HBL432P3W | HBL432C3W | HBL432B3W† | BB2030N | BB201W BB301W | PC3430 | IN430DF | IN430DM |
| | 4P 5W | | | 220/380V 240/415V | HBL532R6W | HBL532P6W | HBL532C6W | HBL532B6W | BB2030N | BB201W BB301W | PC530 | IN530EF | IN530EM |

Note: See page E-9 and E-10 for back boxes and accessories, E-11 and E-12 for product dimensions, E-13 and E-14 for product specifications and HP ratings.
Closure caps purchased separately, see page E-10. PC320, PC420, PC520, PC3430, PC530 are not UL or CSA.
† Consult factory.





IEC Pin and Sleeve Specifications and Horsepower Ratings

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. |
| 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. |
| 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 | IP67 Suitability. |
| Flammability | HB or better per UL 94 or CSA C22.2 No. 0.17. |
| Operating Temperatures | Maximum Continuous 75°C; Minimum - 40°C without impact. |

Materials

| | |
|---------------------|---------------------------------------------|
| Housings | Nylon. |
| All Other Materials | Resistant to corrosion and chemical attack. |

Note: Specification sheets for all other Pin and Sleeve catalog numbers are available upon request.

Horsepower Ratings for IEC Pin and Sleeve

| Catalog Number | AC Voltage Rating | Horsepower |
|---------------------------------------------|-------------------|------------|
| HBL420R9W HBL420P9W HBL420C9W HBL420B9W | 3Ø 250 | 2 |
| HBL420R7W HBL420P7W HBL420C7W HBL420B7W | 3Ø 480 | 5 |
| HBL420R5W HBL420P5W HBL420C5W HBL420B5W | 3Ø 600 | 7.5 |
| HBL520R9W HBL520P9W HBL520C9W HBL520B9W | 3ØY 120/208 | .5 |
| HBL520R7W HBL520P7W HBL520C7W HBL520B7W | 3ØY 277/480 | 5 |
| HBL520R5W HBL520P5W HBL520C5W HBL520B5W | 3ØY 347/600 | 7.5 |
| HBL430R9W HBL430P9W HBL430C9W HBL430B9W | 3Ø 250 | 3 |
| HBL430R7W HBL430P7W HBL430C7W HBL430B7W | 3Ø 480 | 7.5 |
| HBL430R5W HBL430P5W HBL430C5W HBL430B5W | 3Ø 600 | 10 |
| HBL530R9W HBL530P9W HBL530C9W HBL530B9W | 3ØY 120/208 | 2 |
| HBL530R7W HBL530P7W HBL530C7W HBL530B7W | 3ØY 277/480 | 7.5 |
| HBL530R5W HBL530P5W HBL530C5W HBL530B5W | 3ØY 347/600 | 10 |
| HBL460R9W HBL460P9W HBL460C9W HBL460B9W | 3Ø 250 | 5 |
| HBL460R7W HBL460P7W HBL460C7W HBL460B7W | 3Ø 480 | 10 |
| HBL460R5W HBL460P5W HBL460C5W HBL460B5W | 3Ø 600 | 15 |
| HBL560R9W HBL560P9W HBL560C9W HBL560B9W | 3ØY 120/208 | 3 |
| HBL560R7W HBL560P7W HBL560C7W HBL560B7W | 3ØY 277/480 | 10 |
| HBL560R5W HBL560P5W HBL560C5W HBL560B5W | 3ØY 347/600 | 15 |
| HBL4100R9W HBL4100P9W HBL4100C9W HBL4100B9W | 3Ø 250 | 10 |
| HBL4100R7W HBL4100P7W HBL4100C7W HBL4100B7W | 3Ø 480 | 30 |
| HBL4100R5W HBL4100P5W HBL4100C5W HBL4100B5W | 3Ø 600 | 30 |
| HBL5100R9W HBL5100P9W HBL5100C9W HBL5100B9W | 3ØY 120/208 | 10 |
| HBL5100R7W HBL5100P7W HBL5100C7W HBL5100B7W | 3ØY 277/480 | 30 |
| HBL5100R5W HBL5100P5W HBL5100C5W HBL5100B5W | 3ØY 347/600 | 30 |

IEC Pin and Sleeve Unfused Circuit-Lock® Devices

20, 30, 60 and 100 Ampere – North American Ratings, 32 Ampere – International Rating

IP67
SUITABILITY



| Rating | | | | | Unfused Circuit-Lock® Devices | |
|--------|-----------------|----------------------|------|---------------------|-------------------------------|-------------|
| Amps | Poles and Wires | Configuration Recep. | Plug | AC Voltage | Mechanical Interlock | Mating Plug |
| 20 | 3P 4W | | | 120/240V | HBL420MI12W | HBL420P12W |
| | 3P 4W | | | 3Ø 240V | HBL420MI9W | HBL420P9W |
| | 3P 4W | | | 3Ø 480V | HBL420MI7W | HBL420P7W |
| | 3P 4W | | | 3Ø 600V | HBL420MI5W | HBL420P5W |
| 30 | 2P 3W | | | 120V | HBL330MI4W | HBL330P4W |
| | 2P 3W | | | 240V | HBL330MI6W | HBL330P6W |
| | 2P 3W | | | 480V | HBL330MI7W | HBL330P7W |
| | 3P 4W | | | 120/240V | HBL430MI12W | HBL430P12W |
| | 3P 4W | | | 3Ø 240V | HBL430MI9W | HBL430P9W |
| | 3P 4W | | | 3Ø 480V | HBL430MI7W | HBL430P7W |
| | 3P 4W | | | 3Ø 600V | HBL430MI5W | HBL430P5W |
| | 4P 5W | | | 3ØY 120/208V | HBL530MI9W | HBL530P9W |
| | 4P 5W | | | 3ØY 277/480V | HBL530MI7W | HBL530P7W |
| | 4P 5W | | | 3ØY 347/600V | HBL530MI5W | HBL530P5W |
| 32 | 3P 4W | | | 380V 50HZ-440V 60Hz | HBL432MI3W | HBL432P3W |
| 60 | 2P 3W | | | 120V | HBL360MI4W | HBL360P4W |
| | 2P 3W | | | 240V | HBL360MI6W | HBL360P6W |
| | 2P 3W | | | 480V | HBL360MI7W | HBL360P7W |
| | 3P 4W | | | 120/240V | HBL460MI12W | HBL460P12W |
| | 3P 4W | | | 3Ø 240V | HBL460MI9W | HBL460P9W |
| | 3P 4W | | | 3Ø 480V | HBL460MI7W | HBL460P7W |
| | 3P 4W | | | 3Ø 600V | HBL460MI5W | HBL460P5W |
| | 4P 5W | | | 3ØY 120/208V | HBL560MI9W | HBL560P9W |
| | 4P 5W | | | 3ØY 277/480V | HBL560MI7W | HBL560P7W |
| | 4P 5W | | | 3ØY 347/600V | HBL560MI5W | HBL560P5W |
| 100 | 2P 3W | | | 240V | HBL3100MI6W | HBL3100P6W |
| | 3P 4W | | | 120/240V | HBL4100MI12W | HBL4100P12W |
| | 3P 4W | | | 3Ø 240V | HBL4100MI9W | HBL4100P9W |
| | 3P 4W | | | 3Ø 480V | HBL4100MI7W | HBL4100P7W |
| | 3P 4W | | | 3Ø 600V | HBL4100MI5W | HBL4100P5W |
| | 4P 5W | | | 3ØY 120/208V | HBL5100MI9W | HBL5100P9W |

Note: 20, 30 and 32A – 1 inch N.P.T. hub supplied; 60 and 100A – 1¼ inch hub supplied.



IEC Pin and Sleeve Unfused Circuit-Lock®

Specifications and Horsepower Ratings

Typical Specifications

| | |
|----------------------------|------------------------------------------------------------------------------------------------------|
| Manufacturer's Description | Identification Hubbell HBL430MI7W 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 | 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. |

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 | Valox® | Top | Valox® |
| Handle | Valox® | Conduit Hub | Zinc |
| Enclosure Gasket | Neoprene | Shaft | Valox® |
| 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. |
| 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 | Outdoor - 4X (Watertight, Washdown); Indoor - 12 (Dust-tight, Falling Dirt and Noncorrosive Liquids). |
| Ingress Protection | IP67 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 | Catalog Number | Mating Plug Catalog Number |
|------|-----------------------------|----------------------|----------------|----------------------------|
| 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 |

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

IEC Pin and Sleeve

Fused Circuit-Lock® Devices and Accessories

30 and 60 Ampere – North American Ratings

IP66
SUITABILITY



| Rating | | | | | Fused Circuit-Lock® Devices | |
|--------|-----------------|-----------------------------|-------------|--------------|-----------------------------|-------------|
| Amps | Poles and Wires | Configuration Recep./ Conn. | Plug/ Inlet | AC Voltage | Mechanical Interlock | Mating Plug |
| 30 | 3P 4W | | | 120/240V | HBL430MIF12W | HBL430P12W |
| | 3P 4W | | | 3Ø 240V | HBL430MIF9W | HBL430P9W |
| | 3P 4W | | | 3Ø 480V | HBL430MIF7W | HBL430P7W |
| | 3P 4W | | | 3Ø 600V | HBL430MIF5W | HBL430P5W |
| | 4P 5W | | | 3ØY 277/480V | HBL530MIF7W | HBL530P7W |
| | 4P 5W | | | 3ØY 347/600V | HBL530MIF5W | HBL530P5W |
| 60 | 3P 4W | | | 120/240V | HBL460MIF12W | HBL460P12W |
| | 3P 4W | | | 3Ø 240V | HBL460MIF9W | HBL460P9W |
| | 3P 4W | | | 3Ø 480V | HBL460MIF7W | HBL460P7W |
| | 3P 4W | | | 3Ø 600V | HBL460MIF5W | HBL460P5W |
| | 4P 5W | | | 3ØY 120/208V | HBL560MIF9W | HBL560P9W |

Note: 30A – 1 inch N.P.T. hub supplied; 60A – 1¼ inch hub supplied.

ACFSNO

MICPK30

CA3430MI

HBLRFT2

Auxiliary Contacts

| Description | Catalog Number |
|--------------------------------------------------------------------------|----------------|
| Auxiliary contact, normally open, A600 pilot duty, break before break. | ACFSNO |
| Auxiliary contact, normally closed, A600 pilot duty, break before break. | ACFSNC |

Watertight Closure Plug Kits

| Description | Catalog Number |
|-----------------------------------------------------------------------------------|----------------|
| For 30A Circuit-Lock® unfused and fused Pin & Sleeve mechanical interlocks. | MICPK30 |
| For 60 & 100A Circuit-Lock® unfused and fused Pin & 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 & 60A fused mechanical interlocks. | HBLRFT2* |

Note: * Package of 10 feet and 10 screws.

Dimensions

