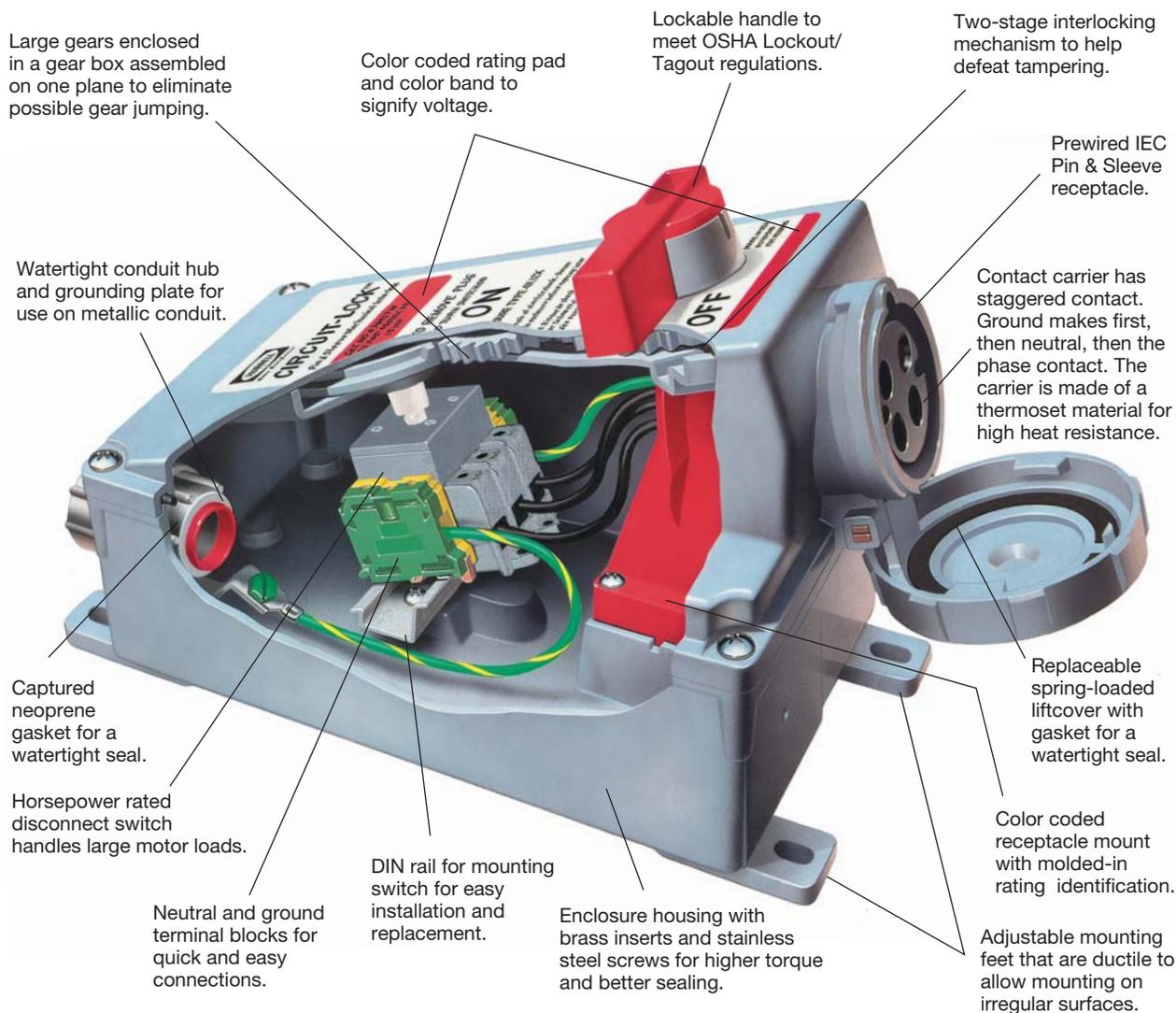


## Pin and Sleeve

**Unfused CIRCUIT-LOCK® Pin and Sleeve Mechanical Interlocks***Features and Benefits***Hubbell Circuit-Lock Mechanical Interlocks**

The National Electrical Code 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. At the same time, it eliminates

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

In addition, these new horsepower rated units are durable, watertight and easy to install. And they're compatible with IEC 60309-2 plugs.

The use of these interlocks can upgrade your facility to a complete Pin and Sleeve system. All Circuit-Lock mechanical interlocks can be locked out as a method of compliance with the OSHA Lockout/Tagout regulation.

These Circuit-Lock units are available in 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.



## Pin and Sleeve

# Unfused CIRCUIT-LOCK® Specifications

### 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 (Dusttight, Falling Dirt and Noncorrosive Liquids)
Ingress Protection	IP67 Suitability.
Enclosure Material	Non-metallic, enclosure suitable for metallic conduit.
Certification	UL Listed, CSA Certified.

*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	Materials	Part	Materials
Base	Valox®	Top	Valox
Handle	Valox	Conduit Hub	Zinc Watertight
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

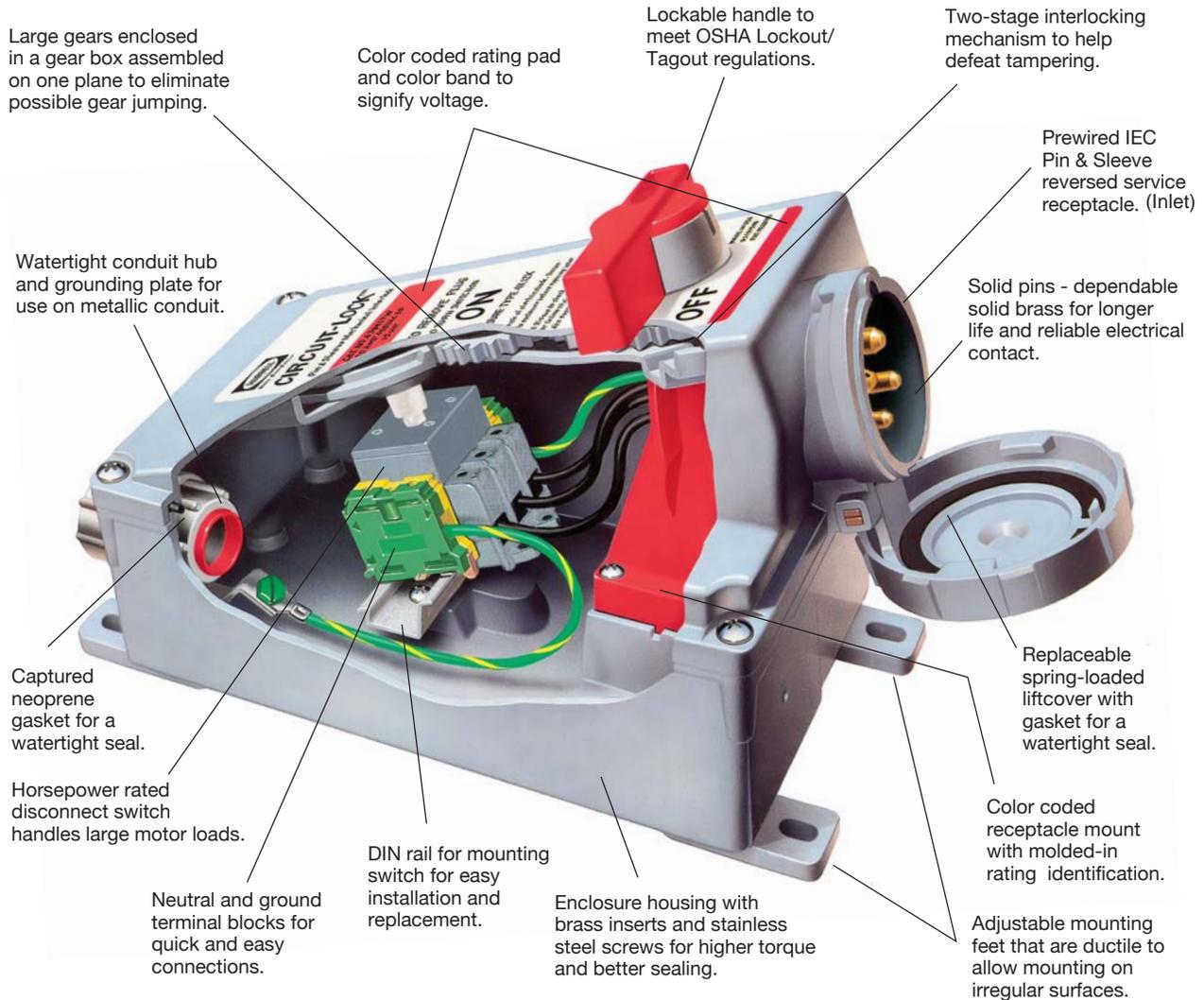
Moisture Resistance	Outdoor - 4X (Watertight, Washdown) Indoor - 12 (Dusttight, Falling Dirt and Noncorrosive Liquids).
Ingress Protection	IP67 Suitability.
Flammability	UL94-5VA and V-0 Classification.
Operating Temperature	Max. Continuous +75°C; Min. Continuous -40°C.
UV Resistance	All materials are UV stabilized.

### Horsepower Ratings

Catalog Numbers	Amps	Rating	Horsepower	Use Pin & Sleeve Plug Catalog No.
HBL330MI4W	30	120V AC	2	HBL330P4W
HBL330MI6W	30	240V AC	3 (208-240V AC)	HBL330P6W
HBL330MI7W	30	480V AC	7.5	HBL330P7W
HBL430MI12W	30	120/240V AC	3 (208-240V AC)	HBL430P12W
HBL430MI15W	30	3Ø 600V AC	20	HBL430P5W
HBL430MI7W	30	3Ø 480V AC	15	HBL430P7W
HBL430MI9W	30	3Ø 250V AC	7.5	HBL430P9W
HBL530MI5W	30	3ØY347/600V AC	20	HBL530P5W
HBL530MI7W	30	3ØY277/480V AC	15	HBL530P7W
HBL530MI9W	30	3ØY120/208V AC	5	HBL530P9W
HBL432MI3W	32	380V AC 50Hz – 440V AC 60Hz	15 (440V AC 3Ø 60Hz)	HBL432P3W
HBL360MI4W	60	120V AC	3	HBL360P4W
HBL360MI6W	60	240V AC	7.5 (208-240V AC)	HBL360P6W
HBL360MI7W	60	480V AC	20	HBL360P7W
HBL460MI12W	60	120/240V AC	7.5 (208-240V AC)	HBL460P12W
HBL460MI5W	60	3Ø 600V AC	40	HBL460P5W
HBL460MI7W	60	3Ø 480V AC	30	HBL460P7W
HBL460MI9W	60	3Ø 250V AC	15	HBL460P9W
HBL560MI5W	60	3ØY347/600V AC	40	HBL560P5W
HBL560MI7W	60	3ØY277/480V AC	30	HBL560P7W
HBL560MI9W	60	3ØY120/208V AC	15	HBL560P9W
HBL3100MI6W	100	240V AC	15 (10 @ 208V AC)	HBL3100P6W
HBL4100MI5W	100	3Ø 600V AC	50	HBL4100P5W
HBL4100MI7W	100	3Ø 480V AC	50	HBL4100P7W
HBL4100MI9W	100	3Ø 250V AC	25 (208-240V AC)	HBL4100P9W
HBL5100MI9W	100	3ØY120/208V AC	20	HBL5100P9W

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## Pin and Sleeve

**CIRCUIT-LOCK® Unfused Pin and Sleeve Reverse Service Mechanical Interlock****Hubbell Circuit-Lock Reverse Service Mechanical Interlocks**

The National Electric Code 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 Circuit-Lock Reverse Service Mechanical Interlock incorporates the disconnect switch and reversed service receptacle (inlet) in one compact non-metallic and economical unit.

At the same time, It eliminates the possibility of making or breaking the circuit under load or making a casual or "lazy" connection. The switch cannot be turned "ON" until the reversed service plug has been inserted properly, and the reversed service plug cannot be removed until the switch is turned "OFF".

The non-metallic enclosure can be connected to metallic conduit and not interfere with the ground continuity.

These new horsepower rated units are durable, watertight and easy to install and all Circuit-Lock Reverse Service Mechanical Interlocks can be locked out as a method of compliance with OSHA Lockout/Tagout regulation.

These new Circuit-Lock units are available in 30, 60 and 100A, 4 wire configurations.

Pin and Sleeve

**Unfused CIRCUIT-LOCK®**  
Reverse Service  
Mechanical Interlock

30, 60 and 100 Ampere – North American Ratings



**IP67**  
SUITABILITY



Amps	Poles and Wires	Configuration Recept./ Plug Conn.	Inlet	Voltage	Mechanical Interlock
30	3P 4W			3Ø240	HBL430MI9WR
	3P 4W			3Ø480	HBL430MI7WR
	3P 4W			3Ø600	HBL430MI5WR
60	3P 4W			120/240	HBL460MI12WR
	3P 4W			3Ø240	HBL460MI9WR
	3P 4W			3Ø480	HBL460MI7WR
	3P 4W			3Ø600	HBL460MI5WR
100	3P 4W			120/240	HBL4100MI12WR
	3P 4W			3Ø240	HBL4100MI9WR
	3P 4W			3Ø480	HBL4100MI7WR
	3P 4W			3Ø600	HBL4100MI5WR

**Auxiliary Contacts-** for 30, 60 & 100A switch, A600 pilot duty.

Break after break.	HBLAC1
Break before break.	HBLAC2

**Ground Block**

For 30A switches.	HBL30RGB
For 60 & 100A switches.	HBL60100RGB

**Neutral Block**

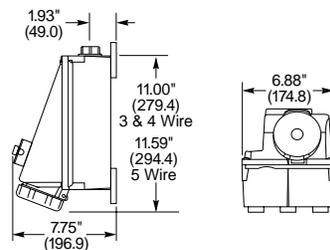
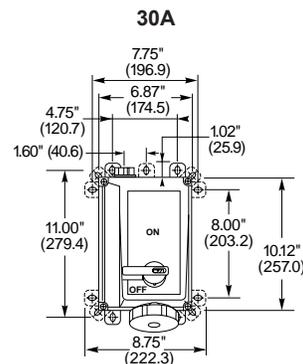
For 30A switches.	HBL30RNB
For 60A switches.	HBL60RNB
For 100A switches.	HBL100RNB

**Replacement Switch**

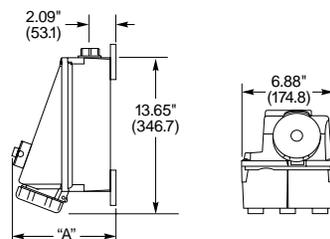
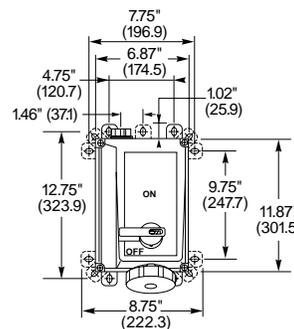
For 30A switches.	HBL30MIRS
For 60 & 100A switches.	HBLDS60100RS

UL Listed, CSA Certified to Type 4, 4X, & Type 12 Enclosure Rating

**Dimensions**



**60A and 100A**



Rating	Dimension "A"
60A	8.60 (218.4)
100A	9.30 (236.2)

# Pin and Sleeve Unfused CIRCUIT-LOCK Reverse Service Specifications

## Specifications

### Typical Specifications

Manufacturer's Description	Identification Hubbell HBL460MI7WR Circuit-Lock Pin & Sleeve Reverse Mechanical Interlock.
Electrical Type	3 Pole + Earth.
Rating	60A, 480V AC 3 Phase.
Configuration	IEC 60309-2 Clock position 7.
Enclosure Type	Outdoor-4X (Watertight, Washdown) Indoor-12 (Dusttight, Falling Dirt and Noncorrosive Liquids).
Ingress Protection	IP67.
Enclosure Material	Non-metallic, enclosure suitable for metallic conduit.
Certification	UL Listed, CSA Certified.
Materials	UV resistant thermoplastic Valox® top and base. High heat thermoset interiors, 300 series stainless steel enclosure screws, zinc watertight 300 stainless steel conduit hub.

## Performance

### Electrical

Dielectric Voltage	Withstands 3,000V AC Min.
Max. Working Voltage	600V AC RMS.
Current Interrupting	Certified for current interrupting.
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

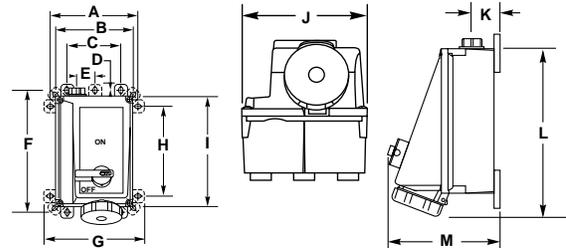
Impact Resistance	In accordance with UL 746C.
Terminal Identification	In accordance with UL, CSA and international conventions.
Product Identification	Identification and rating are part of the external label and molded into the receptacle mount.
Mounting	External adjustable feet.

### Environmental

Moisture Resistance	Outdoor-4X (Watertight, Washdown) Indoor-12 (Dusttight, Falling Dirt and Noncorrosive Liquids).
Ingress Protection	IP67.
Flammability	UL94-5VA and V-0 Classification.
Operating Temperature	Max. Continuous 75°C; Min. Continuous -40°C.
UV Resistance	All materials are UV stabilized.

## Dimensions

KEY	30A		60A		100A	
	Inches	(mm)	Inches	(mm)	Inches	(mm)
A	7.75	(196.9)	7.75	(196.9)	7.75	(196.9)
B	6.87	(174.5)	6.87	(174.5)	6.87	(174.5)
C	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)
H	8.00	(203.2)	9.75	(247.7)	9.75	(247.7)
I	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	11.00	(279.4)	13.65	(346.7)	13.65	(346.7)
M	7.75	(196.9)	8.60	(218.4)	9.30	(236.2)
HUB SIZE	1.00" NPT		1.25" NPT		1.25" NPT	



## Horsepower Ratings

Catalog Numbers	Poles & Wires	Amps	Rating	Horsepower	Reverse Service Plug Catalog Numbers
HBL430MI9WR	3P 4W	30	3Ø 240V AC	7.5	HBL430P9WR
HBL430MI7WR	3P 4W	30	3Ø 480V AC	15	HBL430P7WR
HBL430MI5WR	3P 4W	30	3Ø 600V AC	20	HBL430P5WR
HBL460MI12WR	3P 4W	60	120/240V AC	7.5	HBL460P12WR
HBL460MI9WR	3P 4W	60	3Ø 240V AC	15	HBL460P9WR
HBL460MI7WR	3P 4W	60	3Ø 480V AC	30	HBL460P7WR
HBL460MI5WR	3P 4W	60	3Ø 600V AC	40	HBL460P5WR
HBL4100MI12WR	3P 4W	100	120/240V AC	15	HBL4100P12WR
HBL4100MI9WR	3P 4W	100	3Ø 240V AC	25	HBL4100P9WR
HBL4100MI7WR	3P 4W	100	3Ø 480V AC	50	HBL4100P7WR
HBL4100MI5WR	3P 4W	100	3Ø 600V AC	50	HBL4100P5WR

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