

## PLUGS AND RECEPTACLES











Appleton plugs and receptacles are engineered for use in the most hazardous and rugged locations. They are watertight, explosion-proof and resistant to corrosion and vibration. When your access to power must remain uninterrupted and safe, make sure you install Appleton.



# PLUGS & RECEPTACLES

# Plugs and Receptacles

## Ordinary Location and Hazardous Location

Description	Page	
<b>Ordinary Location</b>		
<b>Powertite® Series Pin and Sleeve Plugs, Connectors and Receptacles</b>	<b>779</b>	
• 30 Amp	<b>784</b>	
• 60 Amp	<b>786</b>	
• 100 and 150 Amp	<b>788</b>	
• 200 Amp	<b>798</b>	
• 400 Amp	<b>800</b>	
<b>ASR Nonmetallic Interlocked Receptacle with Enclosed Disconnect Switch</b>	<b>808</b>	
<b>WSR and WSRD Interlocked Receptacle</b>	<b>811</b>	
<b>IDSR Interlocked Switched Receptacles</b>	<b>815</b>	
<b>AE Series Pin and Sleeve Plugs, Connectors and Receptacles</b>	<b>817</b>	
<b>Hazardous Location</b>		
<b>U-Line® 20 Amp Plugs and Receptacles</b>	<b>824</b>	
• EFSR-GFI Ground Fault Circuit Interrupter	<b>830</b>	
• U-Line® 20 Amp Portable Receptacle with GFCI	<b>831</b>	
<b>U-Line® 15 and 20 Amp Plugs and Receptacles</b>	<b>834</b>	
• ECSK-GFI Ground Fault Circuit Interrupter: CSA Certified	<b>838</b>	
<b>U-Line® Contender® 20 Amp Plugs and Receptacles</b>	<b>840</b>	
• GFS-1 Ground Fault Circuit Interrupter	<b>844</b>	
<b>U-Line® N1 Series 20 Amp Plugs and Receptacles</b>	<b>846</b>	
<b>U-Line® 20 Amp ECH/ECHT Panel Mounting Plugs and Receptacles</b>	<b>850</b>	
<b>U-Line® ECCL Factory Sealed 20 Amp Cable Connectors</b>	<b>851</b>	
		



# Powertite® Series Pin and Sleeve Plugs, Connectors and Receptacles

## Applications

- Designed to supply power to portable or fixed electrical equipment such as motor generator units, welders, pumps, compressors, cellular relay stations, and similar apparatus.
- Ideal for use on shipping docks, ports, and other “ship to shore” applications.
- Suitable for use in locations where a weatherproof enclosure is required.
- Rough usage construction.

## Features

- Available in 30, 60, 100, 150, 200, and 400 Amp units.
- Available in two grounding styles: Style 1 (shell only) and Style 2 (shell and extra pole).
- Neoprene bushing compressed by cable collar prevents entrance of water. Bushing is highly resistant to hydrocarbon deterioration and is self-extinguishing.
- Locking screw and slot prevents plug cable collar from “backing off.”
- Contacts exert constant pressure along entire contact surface and provide electrical continuity.
- Suitable for use from -40 °F/-40 °C to 225 °F/107 °C.
- Insulating blocks provide greatest dielectric and mechanical strength and lowest arc tracking.
- Positive polarization: only plugs and receptacles of same style, number of poles and ampere rating can be used together.
- Circuit breaking: in 30, 60, 100, and 200 Amp units, any arcing created as line and load terminals disengage is safely confined deep within terminal cavities. Plugs may be withdrawn in an emergency under full rated loads without separate disconnect switches (400 Amp plug is for disconnecting use only; not for current rupturing).
- 30, 60, 100, and 150 Amp Powertite® plugs also suitable for classified locations when used with Appleton EBR, EBRH, JBR, MD2SR, or DBR explosion-proof interlocking receptacles.
- Controlled length contacts ensure that ground makes first and breaks last for added safety.

## Standard Materials

- Plug, receptacle, connector and mounting box housings: copperfree (4/10 of 1% max.) aluminum
- Insulating blocks: glass filled polyester

## Standard Finishes

- Aluminum plug, receptacle, connector and mounting box housings: epoxy powder coat
- Insulating blocks and contacts: natural finish

## Options

- See Illustrated Options

## Certifications and Compliances

- UL Standard: UL 1682, UL 1686, UL 50E
- UL Listed: E145916, E145917
- CSA Standard: C22.2 No. 182.1
- CSA Certified: 065179
- NEMA 4X (30, 60, 100, 150, and 200 Amp)
- NEMA Configuration: FB11

## Related Products

- For classified location plugs and receptacles, see *Plugs and Receptacles: Hazardous Location*.



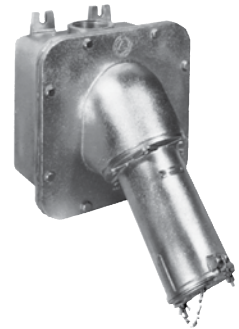
30 and 60 Amp



100 and 150 Amp



200 Amp

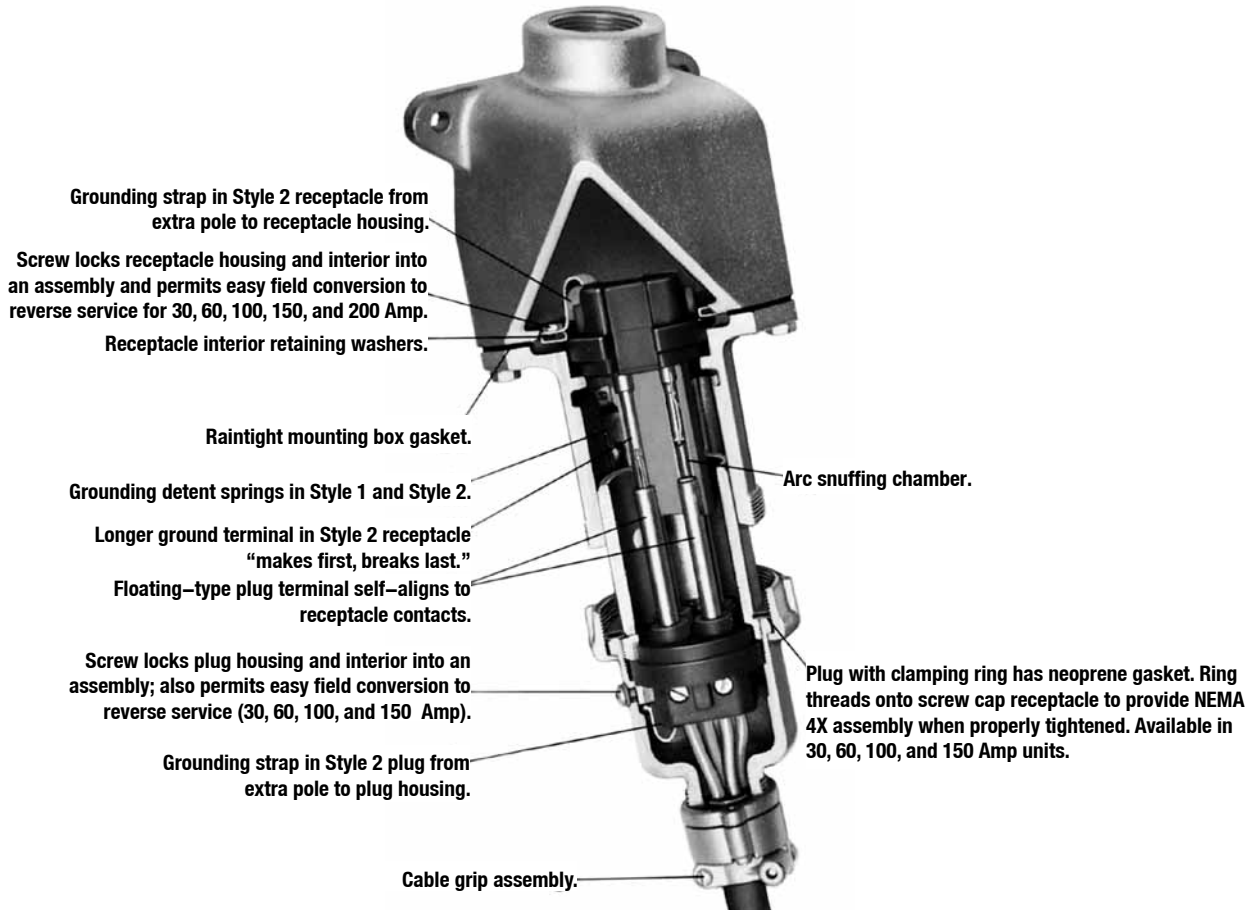


400 Amp

Classified by UL and Certified by CSA for use in specific combinations with Crouse-Hinds Arktite. Arktite is a registered trademark of Cooper Crouse-Hinds.

# Powertite® Series Pin and Sleeve Plugs, Connectors and Receptacles

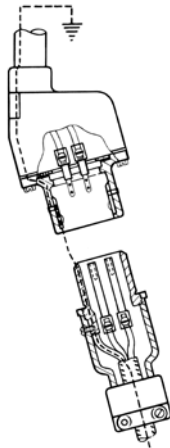
## Illustrated Features



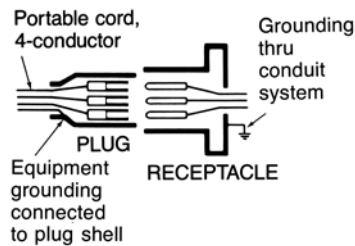
# Powertite® Series Pin and Sleeve Plugs, Connectors and Receptacles

## Illustrated Features

### Grounding Styles

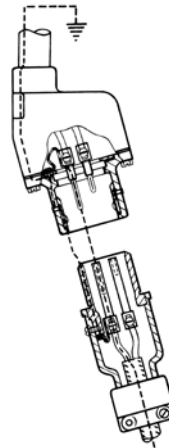


**Style 1  
(Shell Only)**

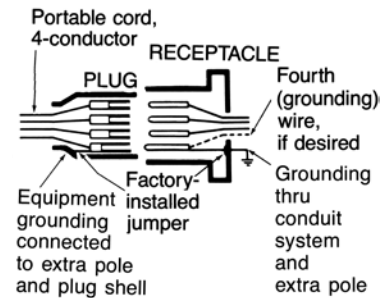


**Plug**—Equipment grounding conductor is wired directly to solderless lug which is connected to the plug housing with a pressure connector. All terminals are “current carrying.”

**Receptacle**—Two detent spring clips engage the grounded plug housing on plug insertion—grounded plug shell makes contact with receptacle ground spring before line and load poles are engaged. Grounding path is maintained until after current-carrying contacts disengage. All terminals are “current carrying.”



**Style 2  
(Shell and Extra Pole)**



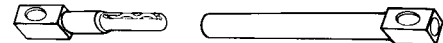
**Plug**—Equipment grounding conductor is not only connected to the solderless lug in the plug housing, but also to an extra grounding pole. Grounding pole has copper alloy grounding jumper strap that connects to plug housing.

**Receptacle**—Two detent spring clips engage grounded plug housing on plug insertion. Jumper from extra grounding pole is electrically connected to a screw on receptacle housing. Longer grounding pole “makes first and breaks last.”

### Pin and Sleeve Design †



**30, 60, and 100 Amp Pressure Wire Terminals.  
Solid Brass Contacts with Beryllium Copper Springs.**



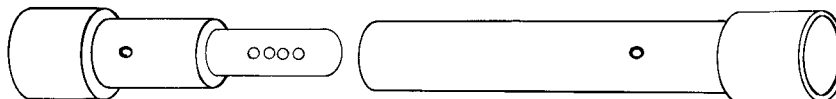
**150 Amp Pressure Wire Terminals.  
Solid Copper Contacts with Beryllium Copper Springs.**



**200 Amp Pressure Wire Terminals. Solid Copper Split-Type Contact.**



**400 Amp 0.84" Solder Well Wire Terminals. Solid Copper Contacts with Four Spring-Loaded Borosilicate Bearings.**



**400 Amp 1.25" Solder Wire Well Terminals. Solid Copper Contacts with Four Spring-Loaded Borosilicate Bearings.**

† Pins and sleeves are not sold separately. Available on the Replacement Interiors pages.

# Powertite® Series Pin and Sleeve Plugs, Connectors and Receptacles

## Illustrated Features

### Spring Door and Screw Cap

30, 60, 100, and 150 Amp spring door and screw cap receptacles are threaded to accept clamping ring ACP plug. The ring threads onto the receptacle to form a raintight assembly with plug in use-and also to prevent plug fallout. When the plug is withdrawn, the gasketed spring door cover closes tightly against receptacle opening automatically, providing weatherproof protection. Spring door has stainless steel spring and shaft.



### Spring Door Cover

30, 60, 100, and 150 Amp units may be located at any position in a 360° circle by adjusting a setscrew. Set screw also allows complete removal of cover. Spring door available on 200 Amp units.

*NOTE: Spring Door cover in open positions for illustration only.*



### ACP Plugs

Supplied with bushings to accommodate a wide variety of cable diameters. 30 Amp plug clamp used in first position with smallest inside diameter bushing provides positive grip on cables as small as 0.390 inches, such as those that are used in oil rig installations.



### Reversible Cable Clamps

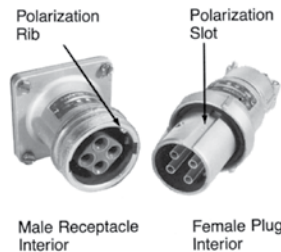
Permits wide cable range (just loosen screws and flip over). Each position accommodates one of two bushings. Convenient in installations having different cable sizes.



## Illustrated Options

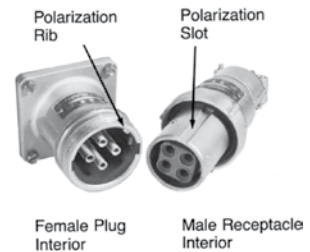
### Standard Service

Energized receptacle has recessed male contacts to reduce danger of accidental touching. Plug has female contacts that are energized only upon insertion in receptacle.



### Reverse Service (Generator Application)

Useful where a "hot" plug feeds a dead receptacle. Reverse service is often used for generator applications where the receptacle houses a dead plug interior. Plug houses an energized receptacle interior, which has recessed male contacts to reduce danger of accidental touching. 30, 60, 100, 150, and 200 Amp units can be easily converted to reverse service in the field when matching plug and receptacle are ordered. 400 Amp unit is only available as a factory assembled item at extra cost. Add suffix **-RS** to receptacle or connector.



### Special Polarization

Prevents plug insertion in a receptacle or connector wired for a different voltage. In installations where there are different line voltages, the special polarization option is desirable. This allows only plugs and receptacles wired for the same line voltage to be mated together. The receptacle or connector interior is positioned 22-1/2°, relative to the polarization rivet, to the right (as specified) of standard, and plug is polarized to correspond. Add suffix **-P4** to the standard or reverse service plug, receptacle or connector.



# Powertite® Series Pin and Sleeve Plugs, Connectors and Receptacles

 Plugs and Receptacles  
**PLUGS AND RECEPTACLES: ORDINARY LOCATION**

## Features at a Glance

Amp	Receptacle Types				Brass with Beryllium Copper Springs	Copper with Borosilicate Bearings	Contacts Split-type Copper Contacts	Brass Ground Contacts	Reverse Service	
	Grounding Styles	Weatherproof Spring Door	NEMA 4X Screw Cap	Raintight Clamp Cover					In Field	Factory Only
30	1 and 2	X	X		X			Style 2	X	
60	1 and 2	X	X		X			Style 2	X	
100	1 and 2	X	X		X			Style 2	X	
150	2	X	X		X <sup>†</sup>			Style 2	X	
200	1 and 2	X <sup>▼</sup>		X <sup>▼</sup>			X	Style 2	X <sup>‡</sup>	
400	1 and 2					X		Style 2		X

## Application Chart

Grounding Style	Wire/Pole	Single Phase		Grounding Style	Wire/Pole	Three Phase	
		With Neutral	Without Neutral			With Neutral	Without Neutral
Style 1 (Shell Only)	2W, 2P	L1+N+G	L1+L2+G	Style 1 (Shell Only)	2W, 2P		
	3W, 3P	L1+L2+N+G			3W, 3P		L1+L2+L3+G
	4W, 4P				4W, 4P	L1+L2+L3+N+G	
Style 2 (Shell and Extra Pole)	2W, 3P	L1+N+G	L1+L2+G	Style 2 (Shell and Extra Pole)	2W, 3P		
	3W, 4P	L1+L2+N+G			3W, 4P		L1+L2+L3+G

**Powertite® Horsepower Ratings** Plug may be withdrawn in an emergency if within these maximum HP ratings. Not for normal starting/stopping.

Phase Motor	Amps	Motor Horsepower				Phase Motor	Amps	Motor Horsepower			
		115 Vac	230 Vac	480 Vac	600 Vac			115 Vac	230 Vac	480 Vac	600 Vac
<b>For Emergency Disconnect Only</b>						1-Phase	30	2	3	10	10
3-Phase 3W, 3P; 3W, 4P; or 4W, 4P	30	3	7-1/2	15	20	2W, 2P or 2W, 3P	60	3	10	20	20
	60	7-1/2	15	30	30		100	7-1/2	15	30	30
	100	10	20	40	40		200	15	30	40	40
	150	Do Not Disconnect Under Load									
200	20	40	50	50							

## Range of Wire Sizes Accommodated in Powertite® Plug and Receptacle Terminals

140 °F/60 °C minimum wire ratings.

30, 60, 100, and 150 Amp				200 Amp			400 Amp		
Amps	Wire Recess Dia. (Inches)	Wire Range Building	Wire Range Extra Flex.	Wire Recess Dia. (Inches)	Conductor Size	Type Conductor	Solder Recess Dia. (Inches)	Conductor Size	Type Conductor
30	.281	#10 – #6	#10 – #8	0.687	250	General Wire	0.84	500 MCM	General Wire
60	.312	#6 – #2	#6 – #4		4/0	General Wire		400 MCM	Flex. Cable
100	.391	#4 – #1	#4 – #2		4/0	Flex. Cable		400 MCM	Extra Flex.
150	.525	#2 – 2/0	#2 – 2/0		3/0	Flex. Cable	1.25	1000 MCM	General wire
					3/0	Extra Flex.		900 MCM	General Wire
					2/0	Flex. Cable		800 MCM	Extra Flex.

▼ NEMA 4X.

‡ For receptacle only.

† Copper with beryllium copper springs.

# Powertite® 30 Amp Pin and Sleeve Plugs and Receptacles

600 Vac, 250 Vdc, 50-400 Hz

Pressure Wire Terminals – Wire Recess Diameter: .281". Wire Size Range: #10—#6 Building; #10—#8 Extra Flex.

NEMA 3, 3R, 4, 4X



Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

Grounding Style	Wire/Pole	Receptacle with AEE Mounting Box *	Hub Size (Inches)	Receptacle Only †	Metallic Clamping Ring Plug ‡	Nonmetallic Clamping Ring Plug ‡	Plug Cable Dia. (Inches)
Style 1 (Shell Only)	2W, 2P	ADRE3022-50	1/2	ADR3022	ACP3022BC	—	.390 to 1.375
		ADRE3022-75	3/4				
	3W, 3P	ADRE3033-75	3/4	ADR3033	ACP3033BC	—	.390 to 1.375
		ADRE3033-100	1				
	4W, 4P	ADRE3044-75	3/4	ADR3044	ACP3044BC	—	.390 to 1.375
ADRE3044-100		1					
Style 2 (Shell and Extra Pole)	2W, 3P	ADRE3023-75	3/4	ADR3023	ACP3023BC	—	.390 to 1.375
		ADRE3023-100	1				
	3W, 4P	ADRE3034-75	3/4	ADR3034	ACP3034BC	NMACP3034BC	.390 to 1.375
		ADRE3034-100	1				

Receptacles are provided with spring door and screw cap.

For Reverse Service, add suffix **-RS** to Catalog Number.

For Special Polarization, add suffix **-P4** to Catalog Number.

## Horsepower Ratings for Emergency Disconnect Under Load

Plug may be withdrawn in an emergency if within these maximum HP ratings. Not for normal starting and stopping.

Phase Motor	Wire/Pole	Motor Horsepower			
		120 Vac	240 Vac	480 Vac	600 Vac
1-Phase	2W, 2P or 2W, 3P	2HP	3HP	10HP	10HP
3-Phase	3W, 3P; 3W, 4P; or 4W, 4P	3HP	7-1/2HP	15HP	20HP

\* For additional mounting boxes, see Aluminum Mounting Boxes.

‡ Plug and receptacle combination is NEMA 4X rated when clamping ring is fully tightened on receptacle.

† Receptacle is NEMA 4X rated when screw cap is closed when the receptacle is not in use.

# Powertite® 30 Amp Pin and Sleeve Connectors and Plugs

600 Vac, 250 Vdc, 50-400 Hz

Pressure Wire Terminals – Wire Recess Diameter: .281". Wire Size Range: #10—#6 Building; #10—#8 Extra Flex.

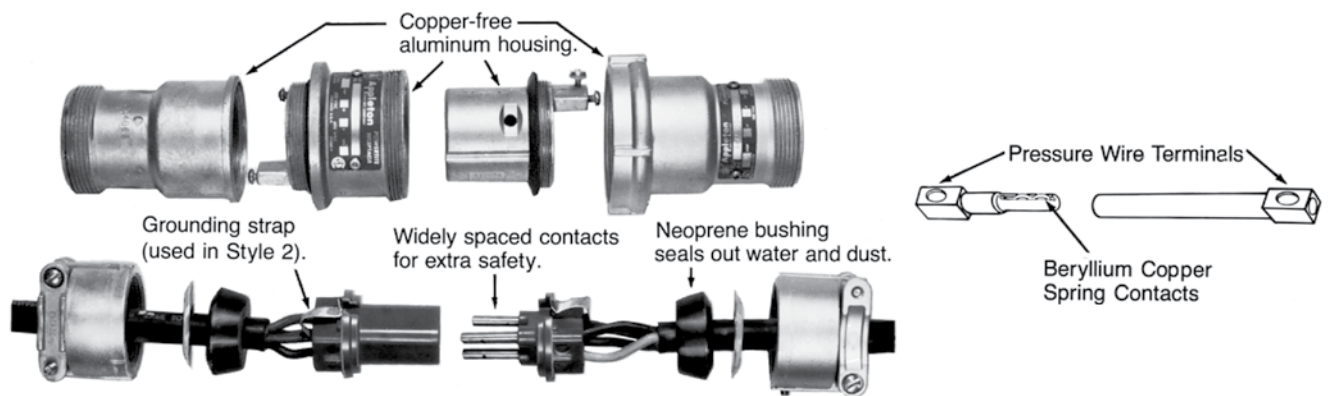
NEMA 3, 3R, 4, 4X



Grounding Style	Wire/Pole	Connector Body Only	Metallic Clamping Ring Plug ‡	Connector/Plug Cable Dia. (Inches)
Style 1 (Shell Only)	2W, 2P	ARC3022BC	ACP3022BC	.390 to 1.375
	3W, 3P	ARC3033BC	ACP3033BC	.390 to 1.375
	4W, 4P	ARC3044BC	ACP3044BC	.390 to 1.375
Style 2 (Shell and Extra Pole)	2W, 3P	ARC3023BC	ACP3023BC	.390 to 1.375
	3W, 4P	ARC3034BC	ACP3034BC	.390 to 1.375

For Reverse Service, add suffix **-RS** to Catalog Number.  
For Special Polarization, add suffix **-P4** to Catalog Number.

## Pin and Sleeve Design



**Energized contacts** deeply recessed to reduce danger of accidental touching, minimize possibility of exposed arcs. Insulator quenches arcing, and is resistant to abnormal heat and to fire.

**Plug mechanical cable clamps** provide strain relief conductor connections, allow easy cable replacement.

**Pressure wire terminals** allow cable to be readily replaced when necessary. Terminal screws grip conductors firmly. Spring contacts provide constant pressure.

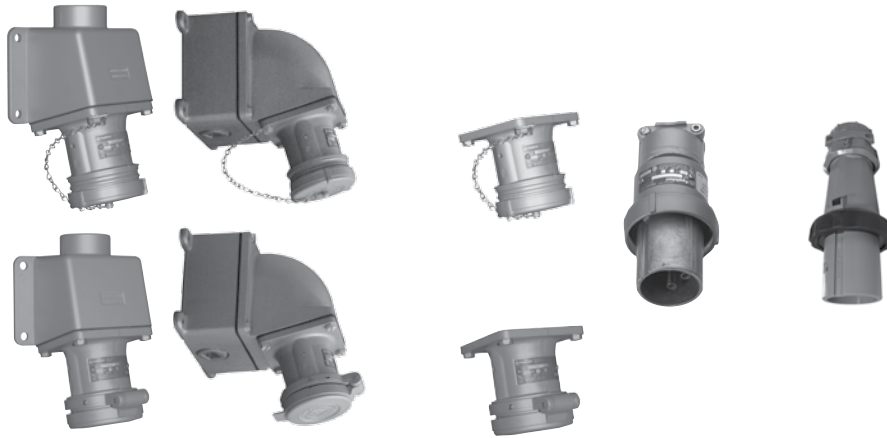
‡ Plug and connector body combination is NEMA 4X rated when clamping ring is fully tightened on connector body.

# Powertite® 60 Amp Pin and Sleeve Plugs and Receptacles

600 Vac, 250 Vdc, 50-400 Hz

Pressure Wire Terminals – Wire Recess Diameter: .312". Wire Size Range: #6—#2 Building; #6—#4 Extra Flex.

NEMA 3, 3R, 4, 4X



Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

Grounding Style	Wire/Pole	Receptacle with AEE Mounting Box *	Receptacle with AJA Mounting Box *	Hub Size (Inches)	Receptacle Only †	Metallic Clamping Ring Plug ‡	Nonmetallic Clamping Ring Plug ‡	Plug Cable Dia. (Inches)
Style 1 (Shell Only)	2W, 2P	ADRE6022-100	ADJA6022-100	1	ADR6022	ACP6022BC	—	.390 to 1.375
		ADRE6022-125	ADJA6022-125	1-1/4				
	3W, 3P	ADRE6033-100	ADJA6033-100	1	ADR6033	ACP6033BC	—	.390 to 1.375
		ADRE6033-125	ADJA6033-125	1-1/4				
	4W, 4P	ADRE6044-125	ADJA6044-125	1-1/4	ADR6044	ACP6044BC	—	.390 to 1.375
		ADRE6044-150	ADJA6044-150	1-1/2				
Style 2 (Shell and Extra Pole)	2W, 3P	ADRE6023-100	ADJA6023-100	1	ADR6023	ACP6023BC	—	.390 to 1.375
		ADRE6023-125	ADJA6023-125	1-1/4				
	3W, 4P	ADRE6034-125	ADJA6034-125	1-1/4	ADR6034	ACP6034BC	NMACP6034BC	.390 to 1.375
		ADRE6034-150	ADJA6034-150	1-1/2				

Receptacles are provided with spring door and screw cap.  
 For Reverse Service, add suffix **-RS** to Catalog Number.  
 For Special Polarization, add suffix **-P4** to Catalog Number.

## Horsepower Ratings for Emergency Disconnect Under Load

Plug may be withdrawn in an emergency if within these maximum HP ratings. Not for normal starting and stopping.

Phase Motor	Wire/Pole	120 Vac	240 Vac	480 Vac	600 Vac
1-Phase	2W, 2P or 2W, 3P	3HP	10HP	20HP	20HP
3-Phase	3W, 3P; 3W, 4P; or 4W, 4P	7-1/2HP	15HP	30HP	30HP

\* For additional mounting boxes, see Aluminum Mounting Boxes.

‡ Plug and receptacle combination is NEMA 4X rated when clamping ring is fully tightened on receptacle.

† Receptacle is NEMA 4X rated when screw cap is closed when the receptacle is not in use.

# Powertite® 60 Amp Pin and Sleeve Connectors and Plugs

600 Vac, 250 Vdc, 50-400 Hz

Pressure Wire Terminals – Wire Recess Diameter: .312". Wire Size Range: #6—#2 Building; #6—#4 Extra Flex.

NEMA 3, 3R, 4, 4X

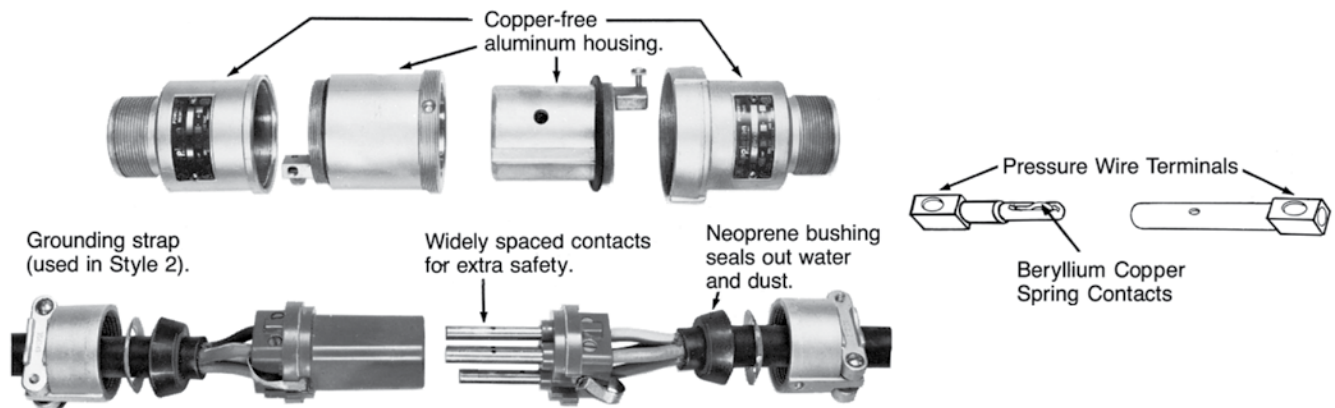


Grounding Style	Wire/Pole	Connector Body Only	Metallic Clamping Ring Plug ‡	Connector/Plug Cable Dia. (Inches)
Style 1 (Shell Only)	2W, 2P	ARC6022BC	ACP6022BC	.390 to 1.375
	3W, 3P	ARC6033BC	ACP6033BC	.390 to 1.375
	4W, 4P	ARC6044BC	ACP6044BC	.390 to 1.375
Style 2 (Shell and Extra Pole)	2W, 3P	ARC6023BC	ACP6023BC	.390 to 1.375
	3W, 4P	ARC6034BC	ACP6034BC	.390 to 1.375

For Reverse Service, add suffix **-RS** to Catalog Number.

For Special Polarization, add suffix **-P4** to Catalog Number.

## Pin and Sleeve Design



**Energized contacts** deeply recessed to reduce danger of accidental touching, minimize possibility of exposed arcs. Insulator quenches arcing, and is resistant to abnormal heat and to fire.

**Plug mechanical cable clamps** provide strain relief at conductor connections, allow easy cable replacement.

**Pressure wire terminals** allow cable to be readily replaced when necessary. Terminal screws grip conductors firmly. Spring contacts provide constant pressure.

‡ Plug and connector body combination is NEMA 4X rated when clamping ring is fully tightened on connector body.

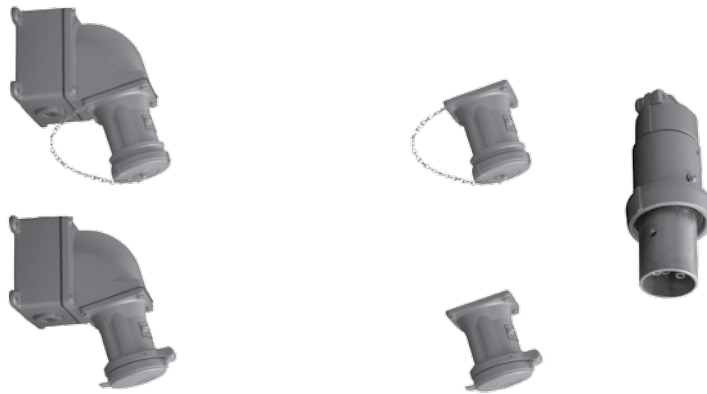
# Powertite® 100 and 150 Amp Pin and Sleeve Plugs and Receptacles

600 Vac, 250 Vdc, 50-400 Hz

Pressure Wire Terminals – 100 Amp: Wire Recess Diameter: .391". Wire Size Range: #4—#1 Building; #4—#2 Extra Flex.

150 Amp: Wire Recess Diameter: .525". Wire Size Range: #2—2/0 Building; #2—#2/0 Extra Flex.

NEMA 3, 3R, 4, 4X



Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

Grounding Style	Wire/Pole	Receptacle with AJA Mounting Box *	Hub Size (Inches)	Receptacle Only †	Clamping Ring Plug ‡	Plug Cable Dia. (Inches)
100 Amp Style 1 (Shell Only)	2W, 2P	ADJA1022-125	1-1/4	ADR1022	ACP1022CD	.875 to 1.906
		ADJA1022-150	1-1/2			
	3W, 3P	ADJA1033-125	1-1/4	ADR1033	ACP1033CD	.875 to 1.906
		ADJA1033-150	1-1/2			
	4W, 4P	ADJA1044-150	1-1/2	ADR1044	ACP1044CD	.875 to 1.906
		ADJA1044-200	2			
100 Amp Style 2 (Shell and Extra Pole)	2W, 3P	ADJA1023-125	1-1/4	ADR1023	ACP1023CD	.875 to 1.906
		ADJA1023-150	1-1/2			
	3W, 4P	ADJA1034-150	1-1/2	ADR1034	ACP1034CD	.875 to 1.906
		ADJA1034-200	2			
150 Amp Style 2 (Shell and Extra Pole)	3W, 4P	ADJA15034-150	1-1/2	ADR15034	ACP15034CD	.875 to 1.906
		ADJA15034-200	2			

Receptacles are provided with spring door and screw cap.

For Reverse Service, add suffix **-RS** to Catalog Number.

For Special Polarization, add suffix **-P4** to Catalog Number.

## Horsepower Ratings for Emergency Disconnect Under Load

Not for normal starting and stopping, but plug may be withdrawn in an emergency if within these maximum HP ratings.

Amp	Motor Phase	Wire/Pole	Motor Horsepower			
			120 Vac	240 Vac	480 Vac	600 Vac
100	1-Phase	2W, 2P or 2W, 3P	7-1/2HP	15HP	30HP	30HP
	3-Phase	3W, 3P; 3W, 4P; or 4W, 4P	10HP	20HP	40HP	40HP
150	3-Phase	3W, 4P	Do Not Disconnect Under Load			

\* For additional mounting boxes, see Aluminum Mounting Boxes.

‡ Plug and receptacle combination is NEMA 4X rated when clamping ring is fully tightened on receptacle.

† Receptacle is NEMA 4X rated when screw cap is closed when the receptacle is not in use.

# Powertite® 100 and 150 Amp Pin and Sleeve Connectors and Plugs

600 Vac, 250 Vdc, 50-400 Hz

Pressure Wire Terminals – 100 Amp: Wire Recess Diameter: .391". Wire Size Range: #4—#1 Building; #4—#2 Extra Flex.

150 Amp: Wire Recess Diameter: .525". Wire Size Range: #2—2/0 Building; #2—#2/0 Extra Flex.

NEMA 3, 3R, 4, 4X



Plugs and Receptacles

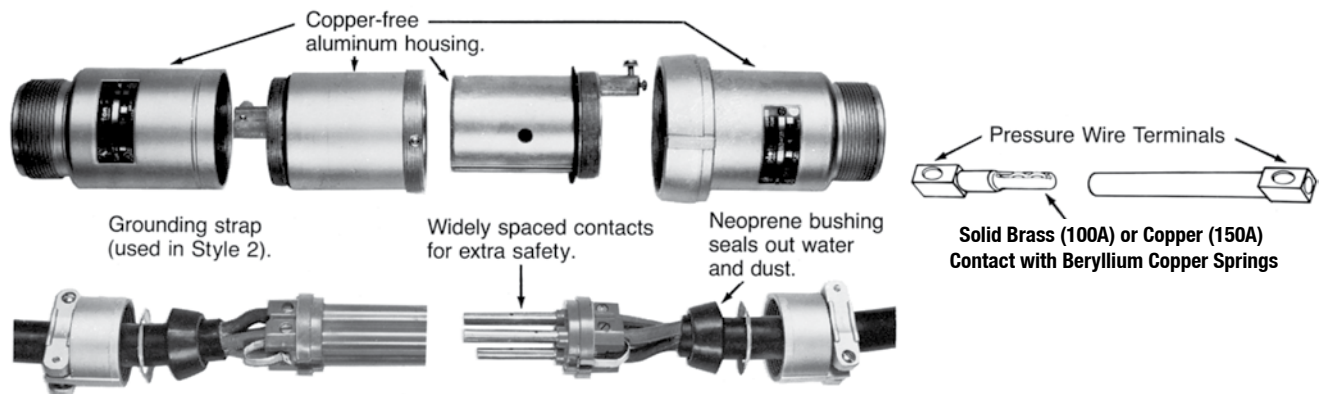
PLUGS AND RECEPTACLES: ORDINARY LOCATION

Grounding Style	Wire/Pole	Connector Body Only	Clamping Ring Plug ‡	Connector/Plug Cable Dia. (Inches)
100 Amp Style 1 (Shell Only)	2W, 2P	ARC1022CD	ACP1022CD	.875 to 1.906
	3W, 3P	ARC1033CD	ACP1033CD	.875 to 1.906
	4W, 4P	ARC1044CD	ACP1044CD	.875 to 1.906
100 Amp Style 2 (Shell and Extra Pole)	2W, 3P	ARC1023CD	ACP1023CD	.875 to 1.906
	3W, 4P	ARC1034CD	ACP1034CD	.875 to 1.906
	3W, 4P	ARC15034CD	—	.875 to 1.906
150 Amp Style 2 (Shell and Extra Pole)	3W, 4P	ARC15034CD	ACP15034CD	.875 to 1.906
	3W, 4P	ARC15034DE	ACP15034DE	1.250 to 2.187

For Reverse Service, add suffix **-RS** to Catalog Number.

For Special Polarization, add suffix **-P4** to Catalog Number.

## Pin and Sleeve Design



**Energized contacts** deeply recessed to reduce danger of accidental touching, minimize possibility of exposed arcs. Insulator quenches arcing, and is resistant to abnormal heat and to fire.

**Pressure wire terminals** allow cable to be readily replaced when necessary. Terminal screws grip conductors firmly. Spring contacts provide constant pressure.

**Plug mechanical cable clamps** provide strain relief at conductor connections, allow easy cable replacement.

‡ Plug and receptacle combination is NEMA 4X rated when clamping ring is fully tightened on receptacle.

# Powertite® 30, 60, 100, and 150 Amp Caps For Plug

## Applications

- Protects insulation and plug contacts from excessive moisture, dirt, dust, and corrosion when portable equipment is not in use.
- For use with 30 Amp 3-Pole and 4-Pole, 60 Amp 4-Pole and 100 and 150 Amp 4-Pole plugs.
- Cap is secured to plug by aviation cable. When in use the cap is held in place with standard plug clamping ring.

## Standard Materials

- Cap: blue ABS plastic



## Ordering Information

Catalog Number	Amp	For Use With
ACPCAP3034	30	ACP3023BC
		ACP3033BC
		ACP3034BC
		ACP3044BC
ACPCAP6004	60	ACP6034BC
		ACP6044BC
ACPCAP1004	100	ACP1034CD
		ACP1044CD
	150	ACP15034CD
		ACP15034DE



# Aluminum Mounting Boxes

## For Powertite® 30, 60, 100, and 150 Amp Receptacles

### 30 Amp



Hub Size (Inches)	AEE	AERH	AERC	AERA
1/2	AEE13	AERH13	AERC13	AERA13
3/4	AEE23	AERH23	AERC23	AERA23
1	AEE33	AERH33	AERC33	AERA33

### 60 and 100 Amp



Hub Size (Inches)	AEE	AERH	AERC	AERA
1	AEE36	AERH36	AERC36	AERA36
1-1/4	AEE46	AERH46	AERC46	AERA46
1-1/2	AEE56	AERH56	AERC56	AERA56

### 60, 100, and 150 Amp



Hub Size (Inches)	AJA Back Box and Adapter *	Angle Adapter Only
1	AJA310	
1-1/4	AJA410	
1-1/2	AJA510	AJA100
2	AJA610	

### Replacement Receptacle Mounting Gasket

Amp	Back Box Type	Part Number
30	AEE, AERH, AERC, AERA	69060871000
60, 100	AEE, AERH, AERC, AERA	69060567000
60, 100, 150	AJA	69009497000

\* Feed-Thru box furnished with one close-up plug in bottom recessed hub.

# Powertite® 30, 60, 100, and 150 Amp Replacement Interiors

600 Vac, 250 Vdc, 50-400 Hz

Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

## 30 Amp †



Grounding Style	Wire/Pole	Receptacle	Plug	Receptacle	Plug
Style 1 (Shell Only)	2W, 2P	<b>ARI-3022</b>	<b>API-3022</b>	—	—
	3W, 3P	<b>ARI-3033</b>	<b>API-3033</b>	—	—
	4W, 4P	<b>ARI-3044</b>	<b>API-3044</b>	—	—
Style 2 (Shell and Extra Pole)	2W, 3P	—	—	<b>ARI-3023</b>	<b>API-3023</b>
	3W, 4P	—	—	<b>ARI-3034</b>	<b>API-3034</b>

## 60 Amp †



Grounding Style	Wire/Pole	Receptacle	Plug	Receptacle	Plug
Style 1 (Shell Only)	2W, 2P	<b>ARI-6022</b>	<b>API-6022</b>	—	—
	3W, 3P	<b>ARI-6033</b>	<b>API-6033</b>	—	—
	4W, 4P	<b>ARI-6044</b>	<b>API-6044</b>	—	—
Style 2 (Shell and Extra Pole)	2W, 3P	—	—	<b>ARI-6023</b>	<b>API-6023</b>
	3W, 4P	—	—	<b>ARI-6034</b>	<b>API-6034</b>

## 100 and 150 Amp †









Grounding Style	Wire/Pole	Receptacle	Plug	Receptacle	Plug
Style 1 (Shell Only)	2W, 2P	<b>ARI-1022</b>	<b>API-1022</b>	—	—
	3W, 3P	<b>ARI-1033</b>	<b>API-1033</b>	—	—
	4W, 4P	<b>ARI-1044</b>	<b>API-1044</b>	—	—
Style 2 (Shell and Extra Pole)	2W, 3P	—	—	<b>ARI-1023</b>	<b>API-1023</b>
	3W, 4P	—	—	<b>ARI-1034</b>	<b>API-1034</b>
150 Amp Style 2 (Shell and Extra Pole)	3W, 4P	—	—	<b>ARI-15034</b>	<b>API-15034</b>

† Pins and sleeves are not sold separately.

# Powertite® 30, 60, 100, and 150 Amp Replacement Parts

600 Vac, 250 Vdc, 50-400 Hz

	Description	Catalog Number
<b>ACP Plug Clamping Ring — Includes Gasket</b>		
	30 Amp — 2-, 3- and 4-Pole	CLMPR30
	30 Amp — 3-Wire, 4-Pole	30CRING ‡
	60 Amp — 2- and 3-Pole	CLMPR23P60
	60 Amp — 4-Pole	CLMPR4P60
	100 Amp — 2- and 3-Pole	CLMPR23P100
	100 and 150 Amp — 4-Pole	CLMPR4P100
<b>Receptacle Spring Cover — Includes Gasket and Chain</b>		
	30 Amp — 2-, 3- and 4-Pole	PTSC30
	60 Amp — 2- and 3-Pole	PTSC60A
	60 Amp — 4-Pole	PTSC60B
	100 Amp — 2- and 3-Pole	PTSC100A
	100 and 150 Amp — 4-Pole	PTSC100B
<b>Receptacle Threaded Cover — Includes Gasket and Chain</b>		
	30 Amp — 2, 3, and 4-Pole	PTTC30
	30 Amp — 3 Wire, 4-Pole	30SCAP ‡
	60 Amp — 2- and 3-Pole	PTTC60A
	60 Amp — 4-Pole	PTTC60B
	100 Amp — 2- and 3-Pole	PTTC100A
	100 and 150 Amp — 4-Pole	PTTC100B
<b>Bushing Bags and Crown Bushings for Plugs and Cable Connectors</b>		
	30 Amp	PTGB30
	60 Amp	PTGB60
	100 Amp and 150 Amp (CD)	PTGBCD
	150 Amp (DE)	PTGBDE
<b>Universal Plug Bushing</b>		
	30 and 60 Amp Cable Range 0.300" – 9.00" Package of 10	PTGBUBC
<b>Receptacle Ground Lug Kit</b>		
	30 Amp Receptacle Ground Lug Kit. Wire Well ID 0.272"	PTRGL30
	60 Amp Receptacle Ground Lug Kit. Wire Well ID 0.312"	PTRGL60
	100 Amp Receptacle Ground Lug Kit. Wire Well ID 0.389" *	PTRGL100

‡ For use with 30 Amp Powertite plugs and WSR/WSRD/JBR/EBR/DBR receptacles.

\* Ground lug is cast into the housing after 09/2008.

Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

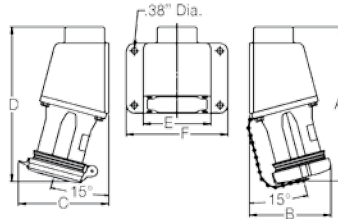
# Powertite® 30, 60, 100, and 150 Amp Mounted Receptacle Dimensions

600 Vac, 250 Vdc, 50-400 Hz

Plugs and Receptacles

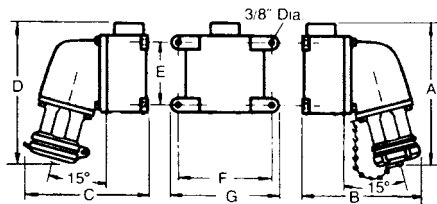
PLUGS AND RECEPTACLES: ORDINARY LOCATION

## Receptacle Mounted on AEE Box



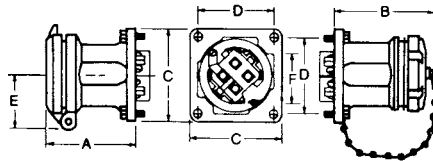
Dimensions in Inches/Millimeters						
Amp	A	B	C	D	E	F
30	6.88/174.7	3.45/89.6	3.95/100.3	7.13/181.1	4.25/107.9	5.00/127.0
60	9.75/247.6	4.73/120.1	4.98/126.4	10.00/254.0	5.38/136.6	6.38/162.0

## Receptacle Mounted on AJA-AJAC Box



Dimensions in Inches/Millimeters							
Amp	A	B	C	D	E	F	G
60	9.63/244.6	8.00/203.2	8.81/223.7	10.69/271.5	4.88/123.9	6.88/174.7	7.88/200.15
100 and 150	11.44/290.5	9.00/228.6	9.19/233.4	11.82/300.2	4.88/123.9	6.88/174.7	7.88/200.15

## ADR Receptacle

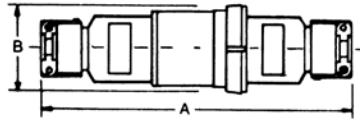


Dimensions in Inches/Millimeters							
Amp	No. Poles	A	B	C	D	E	F
30	2,3,4	2.80/71.1	3.19/81.0	3.38/85.8	2.72/69.0	2.06/52.3	2.75/69.8
60	2,3	4.88/123.9	4.63/117.6	4.25/107.9	3.50/88.9	2.31/58.6	3.10/78.7
60	4	4.88/123.9	4.63/117.6	4.25/107.9	3.50/88.9	2.44/61.9	3.35/85.0
100	2,3	5.10/129.5	5.50/139.7	4.25/107.9	3.50/88.9	2.44/61.9	3.40/86.3
100 and 150	4	5.10/129.5	5.50/139.7	4.25/107.9	3.50/88.9	2.56/65.0	3.60/91.4

# Powertite® 30, 60, 100, and 150 Amp Connector and Plug Dimensions

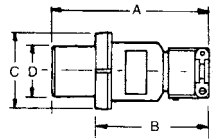
600 Vac, 250 Vdc, 50-400 Hz

## ARC Cable Connector



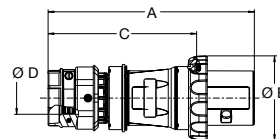
Amp	Dimensions in Inches/Millimeters	
	A	B
30	10.50/266.7	3.13/79.5
60	13.25/336.5	3.81/96.7
100	16.00/406.4	4.25/107.9

## ACP Plug



Amp	No. Poles	Dimensions in Inches/Millimeters			
		A	B	C	D
30	2,3,4	6.00/152.4	4.75/120.6	3.13/79.5	1.86/47.2
60	2,3	7.81/198.3	4.94/125.4	3.50/88.9	2.23/56.6
60	4	7.81/198.3	4.94/125.4	3.81/96.7	2.55/64.7
100	2,3	10.50/266.7	6.63/168.4	4.00/101.6	2.47/62.7
100	4	10.50/266.7	6.63/168.4	4.25/107.9	2.72/69.0
150 (CD)	4	10.50/266.7	6.63/168.4	4.25/107.9	2.72/69.0
150 (DE)	4	13.40/340.3	9.73/247.1	4.25/107.9	2.72/69.0

## NMACP Plug



Amp	No. Poles	Dimensions in Inches/Millimeters			
		A	B	C	D Min — Max
30	4	7.36/187.0	2.48/63.0	5.71/145.0	0.43/11.0 — 0.97/24.5
60	4	9.65/245.0	3.94/100.0	6.85/174.0	0.57/14.5 — 1.42/36.0

Plugs and Receptacles

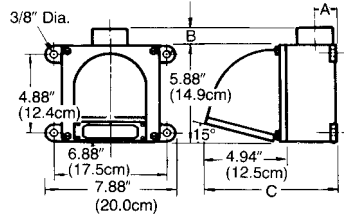
PLUGS AND RECEPTACLES: ORDINARY LOCATION

# Powertite® 30, 60, 100, and 150 Amp Mounting Box Dimensions

600 Vac, 250 Vdc, 50-400 Hz

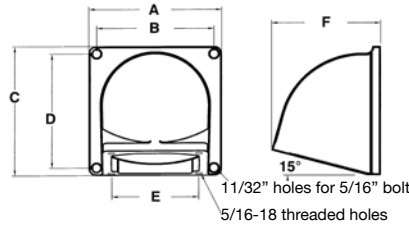
Plugs and Receptacles

## AJAC and AJA Mounting Boxes



Amp	Hub Size (Inches)	Dimensions in Inches/Millimeters		
		A	B †	C
	1	1.13/28.7	0.56/14.2	8.0/203.2
60, 100 and 150	1-1/4	1.13/28.7	0.56/14.2	8.0/203.2
	1-1/2	1.50/38.1	0.56/14.2	8.0/203.2
	2	1.50/38.1	0.56/14.2	8.0/203.2

## AJA100 Angle Adapter



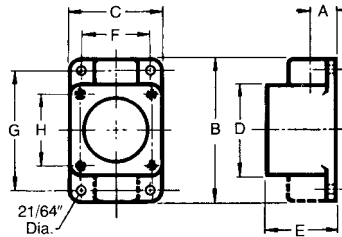
Dimensions in Inches/Millimeters					
A	B	C	D	E	F
5.87/149.0	5.18/131.5	5.87/149.0	5.18/131.5	3.50/88.9	4.81/122.1

† AJA has two hubs. Close-up plug furnished in bottom recessed hub.

# Powertite® 30, 60, 100, and 150 Amp Mounting Box Dimensions

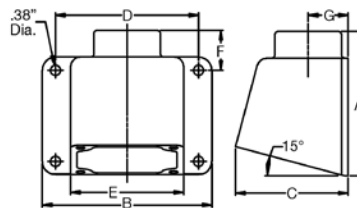
600 Vac, 250 Vdc, 50-400 Hz

## AERA\*, AERC‡ and AERH Mounting Boxes



Amp	Hub Size (Inches)	Dimensions in Inches/Millimeters								
		A*	B‡	C	D	E	F	G	H	J
30	1/2	0.69/17.5	5.31/134.8	3.38/85.8	3.38/85.8	2.50/63.5	2.63/66.8	4.56/115.8	2.72/69.0	0.94/23.8
30	3/4	0.75/19.0	5.31/134.8	3.38/85.8	3.38/85.8	2.50/63.5	2.63/66.8	4.56/115.8	2.72/69.0	0.94/23.8
30	1	0.81/20.5	5.31/134.8	3.38/85.8	3.38/8.6	2.50/63.5	2.63/66.8	4.56/115.8	2.72/69.0	0.94/23.8
60	1	0.81/20.5	6.50/165.1	4.25/107.9	4.25/107.9	3.13/79.5	3.50/88.9	5.88/149.3	3.50/88.9	1.38/35.0
60	1-1/4	0.94/23.8	6.50/165.1	4.25/107.9	4.25/107.9	3.13/79.5	3.50/88.9	5.88/149.3	3.50/88.9	1.38/35.0
60	1-1/2	1.00/25.4	6.50/165.1	4.25/107.9	4.25/107.9	3.13/79.5	3.50/88.9	5.88/149.3	3.50/88.9	1.38/35.0

## AEE Mounting Box



Amp	Hub Size (Inches)	Dimensions in Inches/Millimeters						
		A	B	C	D	E	F	G
30	1/2, 3/4, 1	4.12/104.6	5.00/127.0	3.33/84.5	4.25/107.9	3.38/85.8	1.18/29.9	1.10/27.9
60	1, 1-1/4, 1-1/2	5.41/137.4	6.38/162.0	4.23/107.4	5.38/136.6	4.25/107.9	1.50/38.1	1.50/38.1

\* Dimension "A" for AERA only.  
‡ Dimension "B" for AERC only.

# Powertite® 200 Amp Pin and Sleeve Spring Door Plugs and Receptacles

600 Vac, 250 Vdc, 50-400 Hz.

Wire Recess Diameter: .687". Wire Size Range: 250 MCM-#2/0. Pressure Wire Terminals ★.

NEMA 3, 3R, 4, 4X



Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

Grounding Style	Wire/Pole	Receptacle with AJA Mounting Box †	Hub Size (Inches)	Receptacle Only †	Plug Only	Cable Dia. (Inches)
Style 1 (Shell Only)	3W, 3P	ADJA20033-150	1-1/2	ADR20033	AP20033CD	.875 to 1.906
		ADJA20033-200	2		AP20033E	1.875 to 2.500
	4W, 4P	ADJA20044-200	2	ADR20044	AP20044CD	.875 to 1.906
		ADJA20044-250	2-1/2		AP20044E	1.875 to 2.500
Style 2 (Shell and Extra Pole)	2W, 3P	ADJA20023-150	1-1/2	ADR20023	AP20023CD	.875 to 1.906
		ADJA20023-200	2		AP20023E	1.875 to 2.500
		ADJA20023-250	2-1/2			
	3W, 4P	ADJA20034-150	1-1/2	ADR20034	AP20034CD	.875 to 1.906
		ADJA20034-200	2		AP20034E	1.875 to 2.500
		ADJA20034-250	2-1/2			

For Reverse Service add suffix **-RS** to Catalog Number.  
For Special Polarization, add suffix **-P4** to Catalog Number.

## Maximum Conductor Size

Wire Recess Dia. (Inches)	Conductor Size	Max. Strand	Type Conductor
0.687	250 MCM	37	General Wire
	4/0	19	General Wire
	4/0	259	Flexible Cable
	3/0	427	Extra Flexible Cable
	2/0	259	Flexible Cable
	2/0	259	Flexible Cable

## Horsepower Ratings for Emergency Disconnect Under Load

Plug may be withdrawn in an emergency if within these maximum HP ratings. Not for normal starting and stopping.

Motor Phase	Wire/Pole	Motor Horsepower			
		120 Vac	240 Vac	480 Vac	600 Vac
1-Phase	2W, 3P	15HP	30HP	40HP	40HP
3-Phase	3W, 3P; 3W, 4P; or 4W, 4P	20HP	40HP	50HP	50HP

★ Adapters for #4-#1 wire available, see Powertite® 200 and 400 Amp Replacement Parts.

† For additional mounting boxes, see Aluminum Mounting Boxes.

† Receptacle meets NEMA 3R with spring door closed and NEMA 3, 3R, 4, 4X with plug fully inserted and wing nuts fully tightened or cover closed with wing nuts fully tightened.



# Powertite® 200 Amp Pin and Sleeve Clamp Cover Plugs, Connectors and Receptacles

600 Vac, 250 Vdc, 50-400 Hz.

Wire Recess Diameter: .687". Wire Size Range: 250 MCM-#2/0. Pressure Wire Terminals ★.

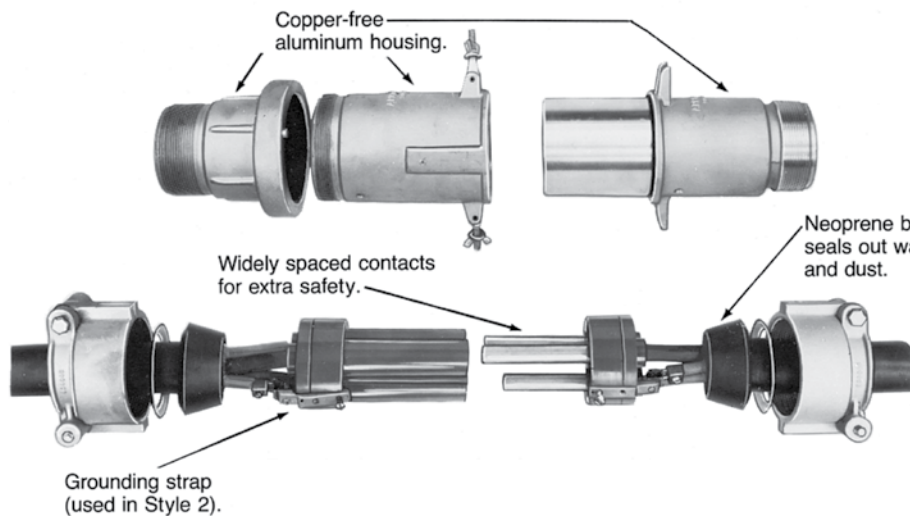
NEMA 3, 3R, 4, 4X



Grounding Style	Wire/Pole	Receptacle with AJA Mounting Box †	Hub Size (Inches)	Receptacle Only †	Connector Body Only	Plug Only ‡	Cable Dia. (Inches)	
Style 1 (Shell Only)	3W, 3P	AJA20033-150	1-1/2	AR20033	ARC20033CD	AP20033CD	.875 to 1.906	
		AJA20033-200	2		ARC20033E	AP20033E	1.875 to 2.500	
	4W, 4P	AJA20044-200	2	AR20044	ARC20044CD	AP20044CD	.875 to 1.906	
		AJA20044-250	2-1/2		ARC20044E	AP20044E	1.875 to 2.500	
Style 2 (Shell and Extra Pole)	2W, 3P	AJA20023-150	1-1/2	AR20023	ARC20023CD	AP20023CD	.875 to 1.906	
		AJA20023-200	2		ARC20023E	AP20023E	1.875 to 2.500	
	3W, 4P	AJA20034-150	1-1/2	AR20034	ARC20034CD	AP20034CD	.875 to 1.906	
		AJA20034-200	2		ARC20034E	AP20034E	1.875 to 2.500	
			AJA20034-250	2-1/2		ARC20034E		1.875 to 2.500

For Reverse Service add suffix **-RS** to Catalog Number.  
For Special Polarization, add suffix **-P4** to Catalog Number.

## Pin and Sleeve Design



**Energized contacts** deeply recessed to reduce danger of accidental touching, minimize possibility of exposed arcs. Insulator quenches arcing, and is resistant to abnormal heat and to fire.

**Plug mechanical cable clamps** provide strain relief at conductor connections, allow easy cable replacement.

★ Adapters for #4-#1 wire available, see Powertite® 200 and 400 Amp Replacement Parts.

◆ For additional mounting boxes, see Aluminum Mounting Boxes.

† Receptacle meets NEMA 3, 3R, 4, 4X with plug fully inserted and wing nuts fully tightened or clamp cover installed with wing nuts fully tightened.

‡ Plug and connector body combination is NEMA 4X rated when wing nuts are fully tightened on connector body.

# Powertite® 400 Amp Pin and Sleeve Clamp Cover Plugs and Receptacles

600 Vac, 250 Vdc, 50-400 Hz.

Wire Recess Diameter: .84" or 1.25". Wire Size Range: 400MCM—1000MCM. Solder Wire Terminals.

Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION



Wire Recess Dia. (Inches)	Grounding Style	Wire/Pole	Receptacle with AJA Mounting Box	Hub Size (Inches) †	Receptacle Only	Plug Only	Cable Dia. (Inches)
0.84 †	Style 1 (Shell Only)	3W, 3P	AJA40033-400	4	AR40033	AP40033E	1.875 to 2.500
		4W, 4P	AJA40044-400		AR40044	AP40044E	1.875 to 2.500
	Style 2 (Shell and Extra Pole)	2W, 3P	AJA40023-400	4	AR40023	AP40023E	1.875 to 2.500
		3W, 4P	AJA40034-400		AR40034	AP40034E	1.875 to 2.500
1.25	Style 1 (Shell Only)	3W, 3P	AJA40133-400	4	AR40133	AP40133F	2.500 to 3.000
		4W, 4P	AJA40144-400		AR40144	AP40144F	2.500 to 3.000
	Style 2 (Shell and Extra Pole)	2W, 3P	AJA40123-400	4	AR40123	AP40123F	2.500 to 3.000
		3W, 4P	AJA40134-400		AR40134	AP40134F	2.500 to 3.000
		3W, 3P	AJA40133-400		AR40133	AP40133G	3.000 to 3.500
		4W, 4P	AJA40144-400		AR40144	AP40144G	3.000 to 3.500

**Solder wire terminals standard on all models.**

For Reverse Service add suffix **-RS** to Catalog Number.

For Special Polarization add suffix **-P4** to Catalog Number.

Note: Box can be turned for vertical or horizontal mount.

## Maximum Conductor Size

400 Amp not horsepower rated. Plug is for disconnecting use only — not for current rupturing.

Solder Recess Dia. (Inches)	Conductor Size	Max. Strand	Type Conductor
0.84	500 MCM	37	General Wire
	400 MCM	259	Flexible Cable
	400 MCM	427	Extra Flexible Cable
1.25	1000 MCM	61	General Wire
	900 MCM	427	Flexible Cable
	800 MCM	703	Extra Flexible Cable

◆ Pressure terminal kits available for .84 wire recess size only to convert solder terminal to pressure terminal. See Replacement Parts page.

† Has feed-thru 4" tapped openings. Supplied with one 4" to 3" reducer and one 4" close-up plug

# Powertite® 400 Amp Pin and Sleeve Connectors and Plugs

600 Vac, 250 Vdc, 50-400 Hz.

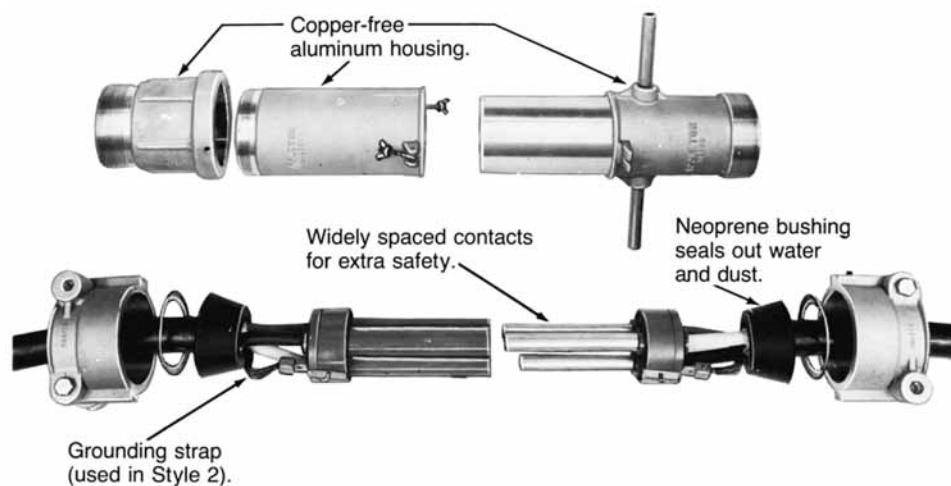
Wire Recess Diameter: .84" or 1.25". Wire Size Range: 400MCM—1000MCM. Solder Wire Terminals.



Wire Recess Dia. (Inches)	Grounding Style	Wire/Pole	Connector Body Only	Plug Only	Cable Dia. (Inches)
0.84 †	Style 1 (Shell Only)	3W, 3P	<b>ARC40033E</b>	<b>AP40033E</b>	1.875 to 2.500
		4W, 4P	<b>ARC40044E</b>	<b>AP40044E</b>	1.875 to 2.500
	Style 2 (Shell and Extra Pole)	2W, 3P	<b>ARC40023E</b>	<b>AP40023E</b>	1.875 to 2.500
		3W, 4P	<b>ARC40034E</b>	<b>AP40034E</b>	1.875 to 2.500
1.25	Style 1 (Shell Only)	3W, 3P	<b>ARC40133F</b>	<b>AP40133F</b>	2.500 to 3.000
			<b>ARC40133G</b>	<b>AP40133G</b>	3.000 to 3.500
		4W, 4P	<b>ARC40144F</b>	<b>AP40144F</b>	2.500 to 3.000
		<b>ARC40144G</b>	<b>AP40144G</b>	3.000 to 3.500	
	Style 2 (Shell and Extra Pole)	2W, 3P	<b>ARC40123F</b>	<b>AP40123F</b>	2.500 to 3.000
			<b>ARC40123G</b>	<b>AP40123G</b>	3.000 to 3.500
3W, 4P		<b>ARC40134F</b>	<b>AP40134F</b>	2.500 to 3.000	
		<b>ARC40134G</b>	<b>AP40134G</b>	3.000 to 3.500	

**Solder wire terminals standard on all models.**  
 For Reverse Service add suffix **-RS** to Catalog Number.  
 For Special Polarization add suffix **-P4** to Catalog Number.

## Pin and Sleeve Design



**Energized contacts** deeply recessed to reduce danger of accidental touching, minimize possibility of exposed arcs. Insulator quenches arcing, and is resistant to abnormal heat and to fire.

**Plug mechanical cable clamps** provide strain relief at conductor connections, allow easy cable replacement.

† Pressure terminal kits available for .84 wire recess size only to convert solder terminal to pressure terminal. See Replacement Parts page.

# Powertite® 200 and 400 Amp Mounting Boxes and Replacement Interiors

600 Vac, 250 Vdc, 50-400 Hz.

Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

## 200 Amp Mounting Boxes and Angle Adapter



Hub Size (Inches)	AJB	AJA	AJAC (Feed-Thru)	AJA200 (Angle Adapter Only)
1-1/2 NPT	—	AJA520	—	AJA200
2 NPT	AJB620	AJA620	—	AJA200
2-1/2 NPT	—	AJA720	AJAC720	AJA200
2-3/8 (Slip Hole)	AJB238	—	—	—

## 400 Amp Mounting Box and Angle Adapter



Hub Size (Inches)	AJAC *	AJA400 (Angle Adapter Only)
4	AJAC400	AJA400

## 200 Amp Interiors †



Grounding Style	Wire/Pole	Receptacle	Plug	Receptacle	Plug
Style 1 (Shell Only)	3W, 3P	ARI20033	API20033	—	—
	4W, 4P	ARI20044	API20044	—	—
Style 2 (Shell and Extra Pole)	2W, 3P	—	—	ARI20023	API20023
	3W, 4P	—	—	ARI20034	API20034

## 400 Amp Interiors †










Wire Recess Dia. (Inches)	Grounding Style	Wire/Pole	Receptacle	Plug	Receptacle	Plug
.84	Style 1 (Shell Only)	3W, 3P	ARI40033	API40033	—	—
		4W, 4P	ARI40044	API40044	—	—
	Style 2 (Shell and Extra Pole)	2W, 3P	—	—	ARI40023	API40023
		3W, 4P	—	—	ARI40034	API40034
1.25	Style 1 (Shell Only)	3W, 3P	ARI40133	API40133	—	—
		4W, 4P	ARI40144	API40144	—	—
	Style 2 (Shell and Extra Pole)	2W, 3P	—	—	ARI40123	API40123
		3W, 4P	—	—	ARI40134	API40134

\* Has feed-thru 4" tapped openings. Supplied with one 4" to 3" reducer and one 4" close-up plug.

† Pins and sleeves are not sold separately.

# Powertite® 200 and 400 Amp Replacement Parts

600 Vac, 250 Vdc, 50-400 Hz.

	Description	Catalog Number
<b>Receptacle Covers</b>		
	<b>Spring Cover — Includes Gasket</b>	
	200 Amp — 2- and 3-Pole	PTLC200A
	200 Amp — 4-Pole	PTLC200B
<b>Clamping Cover — Includes Gasket and Chain</b>		
	200 Amp — 2- and 3-Pole	PTBC200A
	200 Amp — 4-Pole	PTBC200B
	400 Amp — 2- and 3-Pole	PTBC400A
	400 Amp — 4-Pole	PTBC400B
<b>Bushing Bags for Plugs and Cable Connectors</b>		
	200 Amp - Suffix CD	PTGBCD
	200 Amp - Suffix E	PTGB200E
	400 Amp - Suffix E	PTGB400E
	400 Amp - Suffix F	PTGB400F
	400 Amp - Suffix G	PTGB400G
<b>Receptacle Lockout Device</b>		
	Lockout, 200 Amp 3- and 4-Pole Models	PTLOCK2004
	Lockout, 400 Amp 4-Pole Models	PTLOCK4004
<b>Optional Accessory for Wire Size #1 to #4</b>		
<i>Check National Electrical Code for proper wire size and application</i>		
	200 Amp, 3-Pole Wire Adapter Kit	PTK200WA3
	200 Amp, 4-Pole Wire Adapter Kit	PTK200WA4
<b>400 Amp Pressure Terminal Kits</b>		
	<b>Use with 400-500 MCM Wire</b> <i>0.84" I.D. Wire Recess</i>	
	3 Adapters	PTK84-3P
	4 Adapters	PTK84-4P
	<b>Use With 750 MCM General Wire or 500-777 MCM Flexible Wire</b> <i>1.18" I.D. Wire Recess</i>	
	3 Adapters	PTK750-3P
	4 Adapters	PTK750-4P

Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

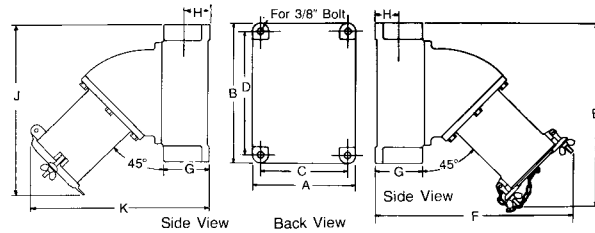
# Powertite® 200 Amp Mounted Receptacle Dimensions

600 Vac, 250 Vdc, 50-400 Hz.

Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

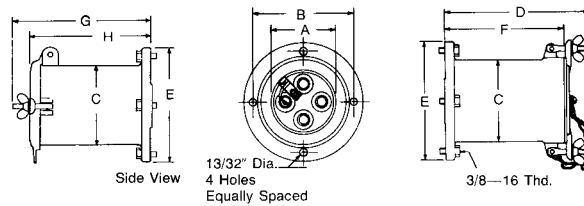
## Receptacle Mounted on AJA and AJAC Boxes



### Dimensions in Inches/Millimeters

A	B	C	D	E	F	G	H	J	K
8.00/203.2	10.75/273.0	6.75/171.4	9.50/241.3	14.00/355.6	15.25/387.3	3.75/95.2	1.88/47.7	13.50/342.9	14.25/361.9

## Receptacle



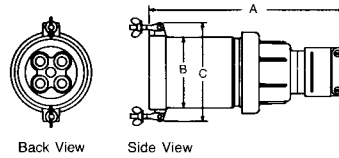
### Dimensions in Inches/Millimeters

No. Poles	A	B	C	D	E	F	G	H
3	3.25/82.5	5.63/143.0	4.19/10.46	8.00/203.2	6.63/168.4	6.56/166.6	6.70/170.1	7.05/179.0
4	3.63/92.2	5.63/143.0	4.56/115.8	8.00/203.2	6.63/168.4	6.56/166.6	6.70/170.1	7.05/179.0

# Powertite® 200 Amp Connector, Plug and Adapter Dimensions

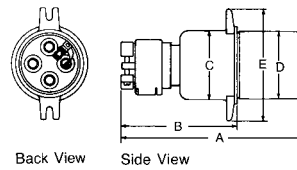
600 Vac, 250 Vdc, 50-400 Hz.

## Connector Body



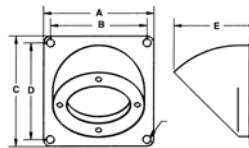
No. Poles	Dimensions in Inches/Millimeters		
	A	B	C
3	13.00/330.2	4.19/106.4	5.38/136.6
4	13.00/330.2	4.56/115.8	5.75/146.0

## Plug



No. Poles	Dimensions in Inches/Millimeters				
	A	B	C	D	E
3	11.94/303.2	7.81/198.3	3.81/96.7	3.75/95.2	6.44/163.5
4	11.94/303.2	7.81/198.3	4.19/106.4	4.13/104.95	6.81/172.9

## AJA200 Angle Adapter



Dimensions in Inches/Millimeters				
A	B	C	D	E
8.0/203.2	7.0/177.8	8.0/203.2	7.0/177.8	6.0/152.4

Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

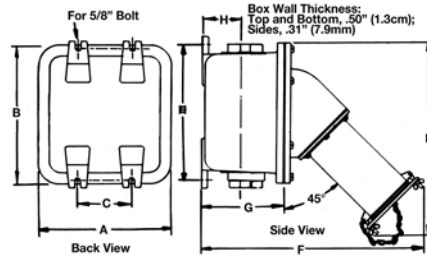
# Powertite® 400 Amp Mounted Receptacle and Receptacle Dimensions

600 Vac, 250 Vdc, 50-400 Hz.

Plugs and Receptacles

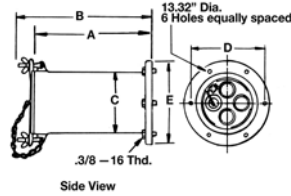
PLUGS AND RECEPTACLES: ORDINARY LOCATION

## Receptacle Mounted on AJAC Box



Hub Size *	Dimensions in Inches/Millimeters							
	A	B	C	D	E	F	G	H
4.00/10.16	15.88/403.3	15.88/403.3	6.50/165.1	15.13/384.3	22.00/558.8	24.25/615.9	8.50/215.9	3.88/98.5

## Receptacle



No. Poles	Dimensions in Inches/Millimeters					
	A	B	C	D	E	F
3	11.25/285.7	12.25/311.1	5.13/130.3	6.75/171.4	7.75/196.8	4.19/106.4
4	11.25/285.7	12.25/311.1	5.63/143.0	6.75/171.4	7.75/196.8	4.69/119.1

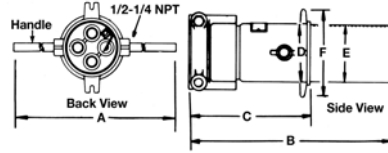
\* AJAC box has feed-thru 4"/101.6 mm openings. Supplied with one 4"/101.6 mm to 3"/76.2 mm reducer, and one 4"/101.6 mm close-up plug.



# Powertite® 400 Amp Connector and Plug Dimensions

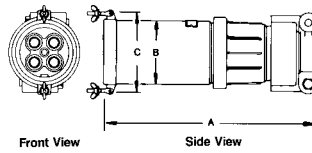
600 Vac, 250 Vdc, 50-400 Hz.

## Plug



No. Poles	Dimensions in Inches/Millimeters					
	A	B	C	D	E	F
3	15.00/381.0	19.00/482.6	11.25/285.7	4.70/119.3	4.66/118.3	7.50/190.5
4	15.50/393.7	19.00/482.6	11.25/285.7	5.19/131.8	5.16/131.0	8.00/203.2

## Connector Body



No. Poles	Dimensions in Inches/Millimeters		
	A	B	C
3	19.00/482.6	5.13/130.3	7.25/184.1
4	19.00/482.6	5.63/143.0	7.75/196.8

Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

# ASR Nonmetallic Interlocked Receptacle

## With Enclosed Disconnect Switch

600 Vac, 30 and 60 Amp, Fused and Non-Fused

NEMA 4X, 12

Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

### Applications

- For use where an interlocked disconnect switch is desired to control a Powertite® receptacle and removal of the plug. Interlock prohibits plug insertion or removal under load. Plug is secured in place by interlock and cannot be withdrawn unless interlock switch is actuated.
- Designed for use in hose-down areas, damp or corrosive locations, raintight or watertight non-hazardous applications.
- For heavy duty applications where a service outlet is required for portable or fixed electrical equipment such as:
  - Welders
  - Generators
  - Compressors
  - Infrared ovens
  - Batch feeders
  - Conveyors
  - Truck terminals
  - Marine docks
- Ideally suited for use in industrial plant applications such as:
  - Automotive and steel processing plants
  - Pulp and paper processing plants
  - Milk processing plants and creameries
  - Fabrication yards and shipyards
  - Refrigerated truck terminals
- Suitable for use as a motor disconnect.

### Features

- Moveable mounting feet allow for installation on irregular surfaces for easy installation.
- Internal mounting tubes where mounting area is limited.
- Hidden hinge system eliminates sanitation concerns.
- The switch is the latest in technology utilizing self-cleaning contacts and driven by a solid bridge bar to prevent single phasing of motors. The quick make/break action provides long electrical life.
- Meets OSHA requirements for lockout/tagout (Reg. 1910.147). Switch can be locked in the OFF position.
- Utilizes Style 2 (shell and extra pole) grounding and 3-wire, 4-pole receptacle wiring.
- Available in fused or non-fused using the same compact enclosure.
- Class J fusing standard on fusible units (100 kAIC short circuit protection at the load source).
- Removable fuse holders allow for installation and replacement of fuse away from interior of unit (fuses not supplied).



- Supplied conduit hub can be installed on top or bottom of the enclosure. Hub sizes: 1.0" 30 Amp, 1.25" 60 Amp.
- Dead front design: Receptacle is not energized until plug is fully inserted and switch is engaged.
- IP66 Suitable
- UL04 – 5V Flame Rating

### Standard Materials

- Enclosure: VALOX®\* thermoplastic polyester with seamless form in place gasket
- Screws: stainless steel screws for outstanding corrosion resistance
- Materials are UV stabilized

### Options

- Reverse Service is useful where a "hot" plug feeds a dead receptacle. Reverse service is often used for generator applications where the receptacle houses a dead plug interior. Plug houses an energized receptacle interior, which has recessed male contacts to reduce danger of accidental touching. 30 and 60 Amp units can be easily converted to reverse service in the field when matching plug and receptacle are ordered. Add suffix **-RS** to receptacle or connector.

### Certifications and Compliances

- UL Standard: UL 98, UL 1682, and UL 1686
- UL Listed: E304212
- CSA Standard: CSA 22.2 No. 4, C22.2 No. 182.1
- cUL Listed: E160652

### Related Products

- Uses standard Powertite ACP and NACP plugs for wide acceptability.

### Horsepower Ratings

Amp		Fusible — Single Phase				Non-Fused — Single Phase			
		208 Vac	240 Vac	480 Vac	600 Vac	208 Vac	240 Vac	480 Vac	600 Vac
30	Standard	—	1.5	3	—	5	5	10	10
	Maximum	5	5	7.5	—				
60	Standard	—	3	5	—	10	10	20	30
	Maximum	7.5	7.5	15	—				

Amp		Fusible — Three Phase				Non-Fused — Three Phase			
		208 Vac	240 Vac	480 Vac	600 Vac	208 Vac	240 Vac	480 Vac	600 Vac
30	Standard	—	3	5	7.5	10	10	20	20
	Maximum	7.5	7.5	15	20				
60	Standard	7.5	7.5	15	15	20	20	40	50
	Maximum	15	15	30	50				

\* Valox is a registered trademark of General Electric Co.


Classified by UL for use in specific combinations with Crouse-Hinds. Arkrite is a registered trademark of Cooper Crouse-Hinds.

# ASR Nonmetallic Interlocked Receptacle Ordering Information, Replacement Parts



## With Enclosed Disconnect Switch

600 Vac, 30 and 60 Amp, Fused and Non-Fused

NEMA 4X, 12

	Amp	Type	Config.	Catalog Number
	30	Non-Fused	3W 4P	ASR3034
		Fused		ASR3034F
	60	Non-Fused	3W 4P	ASR6034
		Fused		ASR6034F


### Mating Powertite® Plug

	Type	Amp	Mating Plug
	Non-Metallic	30	NMACP3034BC
		60	NMACP6034BC
	Metallic	30	ACP3034BC
		60	ACP6034BC

### Optional Auxiliary Contacts

Amps	Interlock Type	Fusible Catalog Number	Non-Fusible Catalog Number
30	1 N/O, 1 N/C	ASR30FDAUX	ASR30AUX
60	1 N/O	ASR60FDAUX-O	ASR60AUX
60	1 N/C	ASR60FDAUX-C	N/A

### Replacement Parts

	Description	Catalog Number
	30 Amp Cover	PTTC30
	60 Amp Cover	PTTC60B
	Threaded Cover (Includes Gasket and Chain)	

Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

# ASR Nonmetallic Interlocked Receptacle Dimensions

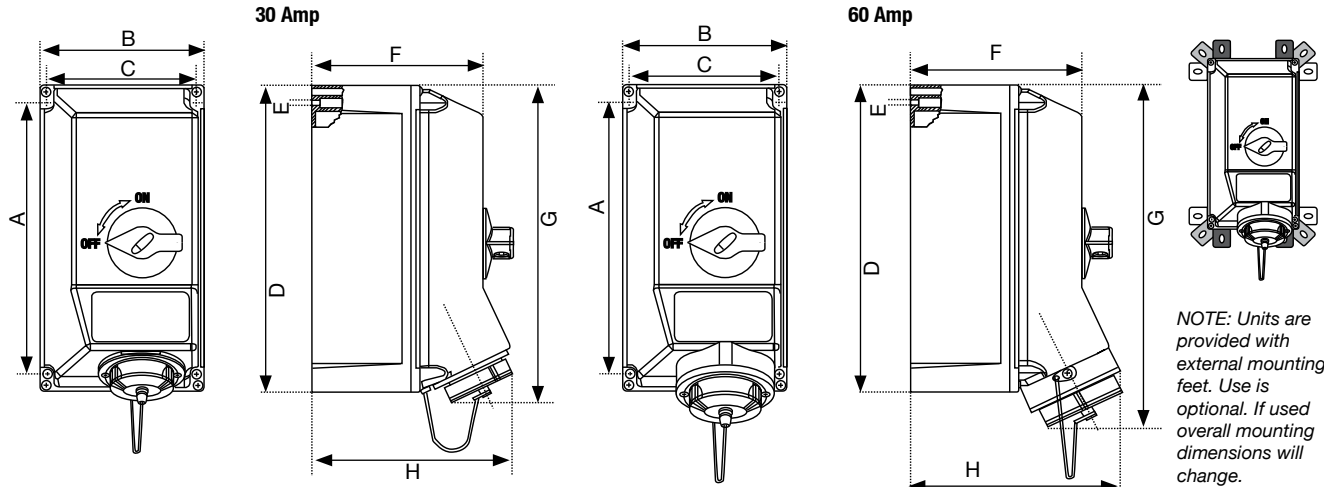
## With Enclosed Disconnect Switch

600 Vac, 30 and 60 Amp, Fused and Non-Fused

Plugs and Receptacles

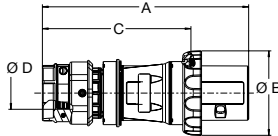
PLUGS AND RECEPTACLES: ORDINARY LOCATION

### Dimensions



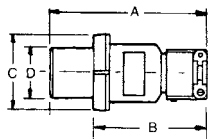
Amp	Dimensions in Inches/Millimeters							
	A	B	C	D	E	F	G	H
30	11.50/292.1	7.0/177.8	6.34/161.0	13.00/330.2	0.18/4.57	7.23/183.6	13.46/341.8	8.45/214.6
60	11.50/292.1	7.0/177.8	6.34/161.0	13.00/330.2	0.18/4.57	7.23/183.6	14.45/367.0	8.93/226.8

### NMACP Plug



Amp	No. Poles	Dimensions in Inches/Millimeters				
		A	B	C	D Minimum	D Maximum
30	4	7.36/187.0	2.48/63.0	5.71/145.0	0.43/11.0	0.97/24.5
60	4	9.65/245.0	3.94/100.0	6.85/174.0	0.57/14.5	1.42/36.0

### ACP Plug



Amp	No. Poles	Dimensions in Inches/Millimeters			
		A	B	C	D
30	2,3,4	6.00/152.4	4.75/120.6	3.13/79.5	1.86/47.2
60	2,3	7.81/198.3	4.94/125.4	3.50/88.9	2.23/56.6
60	4	7.81/198.3	4.94/125.4	3.81/96.7	2.55/64.7

# WSR and WSRD Interlocked Receptacle

## With Enclosed Disconnect Switch

600 Vac, 250 Vdc, 30, 60, 100 Amp, 50/60 Hz, Fused and Non-fused for use with Powertite® ACP and CPH plugs.

NEMA 3, 3R, 4, 4X, 12

### Applications

- Designed for use in raintight or watertight, non-hazardous, heavy duty applications where a service outlet is required for portable or fixed electrical equipment such as:
  - Welders
  - Generators
  - Compressors
  - Infrared ovens
  - Batch feeders
  - Conveyors
  - Truck terminals
  - Marine docks
- Ideally suited for use in industrial plant applications such as:
  - Automotive and steel processing plants
  - Pulp and paper processing plants
  - Milk processing plants and creameries
  - Fabrication yards and shipyards
  - Refrigerated truck terminals

### Features

- For use where an interlocked disconnect switch is desired to control a Powertite® receptacle and insertion or removal of plug. Interlock prohibits plug insertion or removal under load. Plug is secured in place by interlock and cannot be withdrawn unless interlock release lever is actuated.
- Spring door standard and screw cap provided at no additional cost to meet NEMA 3, 3R, 4, 4X applications.
- The Square D™ F-Series offers the latest in switch technology: An operating mechanism designed to endure at least three times the number of operations required by NEMA and UL standards; modular componentry designed for quick and easy maintenance; and visible blades for an extra measure of safety while the low mass cam allows greater blade operating speed and reduced mechanical wear.
- Insulated, dual-color polymer operating handle clearly indicates the switch being energized. Ergonomically designed handle is made of high-impact polymer material for exceptional ruggedness, durability and corrosion resistance †.
- Utilizes Style 2 (shell and extra pole) grounding and 3-wire, 4-pole receptacle wiring.
- Removable hinged cover allows for ease of installation and maintenance (WSR).
- Class R fusing standard on WSRD fusible units and J Type on WSR. Product can be retrofitted with Class J, K, or S fusing.
- Short circuit withstand rated to 200,000 RMS symmetrical Amps (Class R and J Fusing).
- Stainless Steel captive spring out quad lead cover bolts for easy access and corrosion resistance (WSR).
- Conduit entry is drilled and tapped to 1-1/2". Reducer bushings 1-1/2" – 1-1/4" and 1-1/2" – 1" provided at no additional cost (WSR).
- Stainless steel key-hole mounting feet for easy installation (WSR).
- Unit is equipped with defeatable door interlock which allows emergency access when switch is energized.
- Cover can be padlocked closed.
- Operating handle can be locked in the OFF or ON position.
- Dead front design: receptacle is not energized until plug is fully inserted and switch is engaged.

■ Square D is a registered trademark of Schneider Electric.

† Cutler Hammer models have metallic handles. Cutler Hammer is a registered trademark of Eaton Corporation.

UL Classified for use with Crouse-Hinds Arkrite® plugs. Arkrite is a registered trademark of Cooper Crouse-Hinds.



WSR Cast Aluminum Enclosure



WSRD (Cutler Hammer) Sheet Metal Enclosure



WSRD (Square D) Sheet Metal Enclosure



WSRD Stainless Steel Enclosure

- Wire size for 30 and 60 Amp models is #14 to #2 AWG. For 100 Amp models it is #14 to #1/0 AWG.

### Standard Materials and Finishes

- Receptacle assembly: copperfree (4/10 of 1% max.) aluminum with epoxy powder coating inside and outside
- WSR enclosure: copperfree aluminum with epoxy powder coating inside and outside
- WSRD enclosure: enamel coated sheet metal
- WSRD-N4 enclosure: stainless steel
- Operating handle †: high impact polymer
- WSR and WSRD-N4 hardware: stainless steel

### Options

- Special polarization prevents plug insertion in a receptacle wired for a different voltage. In installations where there are different line voltages, the special polarization option is desirable. This allows only plugs and receptacles wired for the same line voltage to be mated together. The receptacle interior is positioned 22-1/2°, relative to the polarization rivet, to the right (as specified) of standard, and plug is polarized to correspond. Add suffix **-P4** to the standard receptacle.

### Certifications and Compliances

- UL Standard: UL 98, UL 50E, UL 1682, UL 1686
- UL Listed: E145917, E160652
- CSA Standard: C22.2 No.4, C22.2 No. 182.1
- CSA Certified: 025875

### Related Products

- Uses standard Powertite® ACP or CPH plugs for wide acceptability.

# WSR and WSRD Interlocked Receptacle

## With Enclosed Disconnect Switch

600 Vac, 250 Vdc, 30, 60, 100 Amp, 50/60 Hz, Fused and Non-fused for use with Powertite® ACP and CPH plugs.

NEMA 3, 3R, 4, 4X, 12

Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION

Amp	Wire Size AWG	Fusing †	HP at 600 Vac Std/Max 3-Phase	Without Viewing Window	With Viewing Window	Aux. Contacts ‡ 1 or 2 NO/NC	Mating Plug	
<b>Cast Aluminum Enclosure — NEMA 3, 3R, 4, 4X, 12 *</b>								
30	#14 to #2	Fused	7.5/20	WSR3352	N/A	WSAUX1	WSAUX2	ACP3034BC
		Non-Fused	30	WSR33542	N/A	WSAUX1	WSAUX2	ACP3034BC
60	#14 to #2	Fused	15/50	WSR6352	N/A	WSAUX1	WSAUX2	ACP6034BC
		Non-Fused	60	WSR63542	N/A	WSAUX1	WSAUX2	ACP6034BC
100	#14 to #1/0	Fused	30/75	WSR10352	N/A	WSAUX1	WSAUX2	ACP1034CD
		Non-Fused	75	WSR103542	N/A	WSAUX1	WSAUX2	ACP1034CD
<b>Sheet Metal Enclosure — NEMA 12 *</b>								
30	#14 to #2	Fused	7.5/20	WSRD3352SQ	WSRD3352WSQ	WSAUX1	WSAUX2	ACP3034BC
		Non-Fused	30	WSRD33542SQ	WSRD33542WSQ	WSAUX1	WSAUX2	ACP3034BC
60	#14 to #2	Fused	15/50	WSRD6352 ♦	N/A	WSRDAUX1	WSRDAUX2	ACP6034BC
		Non-Fused	60	WSRD63542 ♦	N/A	WSRDAUX1	WSRDAUX2	ACP6034BC
		Fused	15/50	WSRD6352SQ	WSRD6352WSQ	WSAUX1	WSAUX2	ACP6034BC
		Non-Fused	60	WSRD63542SQ	WSRD63542WSQ	WSAUX1	WSAUX2	ACP6034BC
100	#14 to #1/0	Fused	30/75	WSRD10352SQ	WSRD10352WSQ	WSAUX1	WSAUX2	ACP1034CD
		Non-Fused	75	WSRD103542SQ	WSRD103542WSQ	WSAUX1	WSAUX2	ACP1034CD
<b>Stainless Steel Enclosure — NEMA 3, 3R, 4, 4X, 12 *</b>								
30	#14 to #2	Fused	7.5/20	WSRD3352N4SD	WSRD3352N4WSD	WSAUX1	WSAUX2	ACP3034BC
		Non-Fused	20	WSRD33542N4SD	WSRD33542N4WSD	WSAUX1	WSAUX2	ACP3034BC
60	#14 to #2	Fused	15/50	WSRD6352N4SD	WSRD6352N4WSD	WSAUX1	WSAUX2	ACP6034BC
		Non-Fused	50	WSRD63542N4SD	WSRD63542N4WSD	WSAUX1	WSAUX2	ACP6034BC
100	#14 to #1/0	Fused	30/75	WSRD10352N4SD	WSRD10352N4WSD	WSAUX1	WSAUX2	ACP1034CD
		Non-Fused	75	WSRD103542N4SD	WSRD103542N4WSD	WSAUX1	WSAUX2	ACP1034CD

### Square D Auxiliary Contacts for WSR/WSRD Disconnect Switch †

Interlock Type	50 or 60 Hz Vac	Make	Break	Cont.	Vdc	Make and Break	Cont.	Catalog Number
1 NO/1 NC CONTACT	120	40A	15A	15A	115	0.50A	15A	WSAUX1
	240	20A	10A	15A	230	0.25A	15A	
	480	10A	6A	15A	—	—	—	
	600	8A	5A	15A	600	0.05A	15A	
2 NO/2 NC CONTACTS	120	30A	3.0A	10A	115	1.0A	10A	WSAUX2
	240	15A	1.5A	10A	230	0.30A	10A	
	480	7.5A	.75A	10A	—	—	—	
	600	6.0A	.60A	10A	600	0.10A	10A	

† Fuses not included in fused products. Class R fusing standard on WSRD fusible units and J Type on WSR. Product can be retrofitted with Class J, K, or S fusing.

‡ To order with auxiliary contacts installed, add suffix from this column to end of Catalog Number.

■ Standard Square D F-Series Disconnect Switch, except where noted.

♦ Cutler Hammer Disconnect Switch. Cutler Hammer auxiliary switch is 1 NO/1 NC or 2 NO/2 NC.

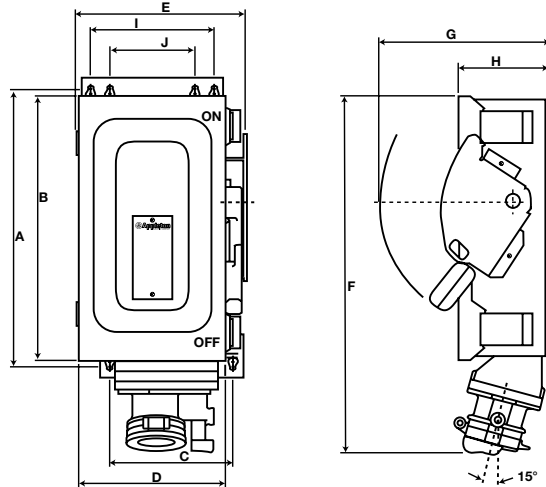
† Single pole single throw interlock kits are rated 1/2 HP @ 110 and 220 Vac. WSAUX1 utilizes a 9007A01 limit switch. WSAUX2 utilizes a 9007C03 limit switch.

# WSR and WSRD Interlocked Receptacle Dimensions

## With Enclosed Disconnect Switch

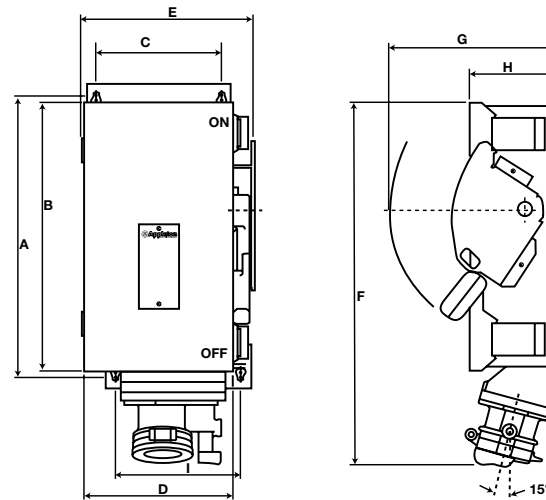
600 Vac, 250 Vdc, 30, 60, 100 Amp, 50/60 Hz, Fused and Non-fused for use with Powertite® ACP and CPH plugs.

### WSRD Interlocked Receptacle with Enclosed Switch — Square D — NEMA 12



Amp	Dimensions in Inches/Millimeters									
	A	B	C	D	E	F	G	H	I	J
30 and 60	16.75/425.4	16.50/419.1	7.50/190.5	9.0/228.6	10.50/266.7	22.25/565.1	10.31/261.8	5.53/140.4	7.50/190.5	5.12/130.0
100	20.75/527.0	20.50/520.7	7.50/190.5	9.0/228.6	10.50/266.7	26.25/666.7	10.31/261.8	5.53/140.4	7.50/190.5	5.12/130.0

### WSRD Interlocked Receptacle with Enclosed Switch — Square D — NEMA 4



Amp	Dimensions in Inches/Millimeters								
	A	B	C	D	E	F	G	H	I
30 and 60	17.46/443.4	16.87/428.4	7.50/190.5	8.92/226.5	10.81/274.5	23.0/584.2	10.00/25.4	5.11/129.7	7.50/190.5
100	21.41/543.8	20.82/528.8	7.50/190.5	9.36/237.4	11.25/285.7	28.0/711.2	10.13/25.7	6.97/177.0	7.50/190.5

# WSR and WSRD Interlocked Receptacle Dimensions

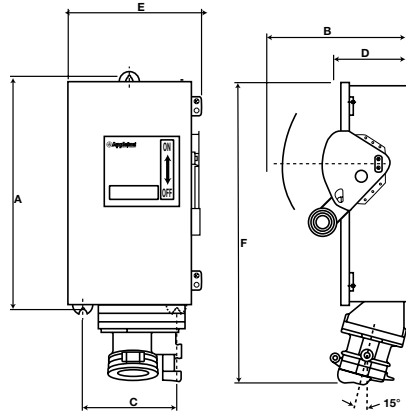
## With Enclosed Disconnect Switch

600 Vac, 250 Vdc, 30, 60, 100 Amp, 50/60 Hz, Fused and Non-fused for use with Powertite® ACP and CPH plugs.

Plugs and Receptacles

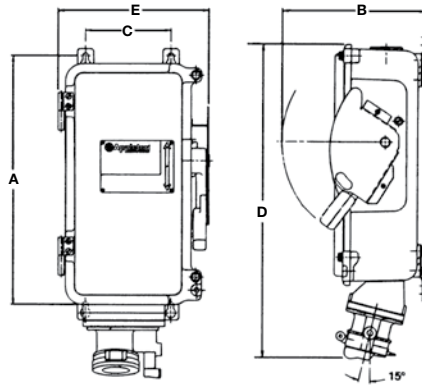
PLUGS AND RECEPTACLES: ORDINARY LOCATION

### WSRD Interlocked Receptacle — Cutler Hammer — NEMA 12



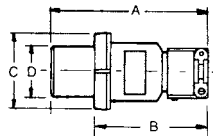
Amp	Dimensions in Inches/Millimeters					
	A	B	C	D	E	F
30 and 60	19.25/488.9	10.25/260.3	7.0/177.8	5.5/139.7	10.25/260.3	24.20/614.6

### WSR Interlocked Receptacle — with Enclosed Switch



Catalog Number	Dimensions in Inches/Millimeters				
	A	B	C	D	E
WSR3352, WSR33542, WSR6352 WSR63542, WSR103542	19.25/488.9	11.00/279.4	6.56/166.6	24.33/617.9	11.56/293.6
WSR10352	22.88/581.1	11.00/279.4	6.56/166.6	24.33/617.9	11.56/293.6

### ACP Plug



Amp	No. Poles	Dimensions in Inches/Millimeters			
		A	B	C	D
30	2,3,4	6.00/152.4	4.75/120.6	3.13/79.5	1.86/47.2
60	4	7.81/198.3	4.94/125.4	3.81/96.7	2.55/64.7
100	4	10.50/266.7	6.63/168.4	4.25/107.9	2.72/69.0



# IDSR Interlocked Switched Receptacles

CSA Certification Only. With Breaker or Disconnect Switch, Fusible or Non-fusible. Weatherproof. Watertight

For use with Powertite® ACP plugs.

NEMA 3, 3R, 4, 4X, 5, 12

(30 Ampere receptacle is not available as TYPE 4X.)

## Applications

- Used to supply power to portable and mobile electrical equipment in all indoor and outdoor non-hazardous locations.
- Used to provide short circuit protection to portable equipment when supplied with a circuit breaker or fused disconnect.
- Provides a convenient ON-OFF mechanism.
- Ideal for use in areas where dust, dirt or moisture is a problem.
- Suitable for use in:
  - Chemical plants
  - Process facilities
  - Meat packing plants
  - Other manufacturing industries
- Provides high amperage power to heavy equipment such as:
  - Motor-generator sets
  - Compressors
  - Heating and cooling units
  - Welders
  - Conveyors

## Features

- Receptacles are provided with a safety-interlock system. Plugs cannot be inserted or removed unless the power switch is in the OFF position.
- The Safety-Interlock is designed to free both hands for insertion and removal of the plug.
- A cover interlock is provided to prevent entry to the enclosure while the operator is in the “ON” position.
- Uses standard Powertite ACP or CPH plugs for wide acceptability.
- Furnished with rugged cast aluminum housings.
- Flip cap standard and screw cap provided at no additional cost to meet TYPE 4X applications (screw cap not available on 30 amp).
- Receptacles with 3 phase 4 wire grounded receptacles are pre-wired to the breaker or disconnect switch.
- Patented brass receptacle contacts exert constant pressure for good electrical continuity.
- Appleton's insulating blocks provide the greatest dielectric and mechanical strength.
- Ergonomically designed yet rugged cast aluminum handle for exceptional durability and corrosion resistance.
- 600 Vac FB Circuit Breakers.
- Provision is made for locking the operating mechanism in the OFF position.
- Cast Aluminum, Spring Door: Enclosure 3 and 5.
- Cast Aluminum, Screw Cap: Enclosure 3, 4X and 5.
- Stainless Steel: Enclosure type 3, 3R, 4, 4X, 12.

## Standard Materials

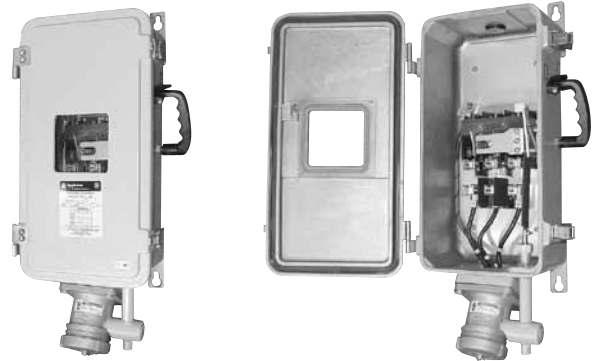
- Enclosure and Receptacle: cast copperfree (4/10 of 1% max.) aluminum

## Standard Finish

- Corrosion resistant grey epoxy paint

## Options

- One normally opened, one normally closed auxiliary switch, add suffix **-AUX**.
- Lockable cover latch add suffix **-DL**.




- LED Indicator Lights: one light indicates power unit and other indicates switch is in ON position add suffix **-IL**.
- Supplied with viewing window add suffix **-W**.

## Certifications and Compliances

- CSA Standard: C22.2 No. 4, C22.2 No. 5, C22.2 No. 182.1
- CSA Certified: 048391

## Related Products

- Uses standard Powertite® ACP or CPH plugs for wide acceptability.

UL Classified for use with Crouse-Hinds Arkrite® plugs. Arkrite is a registered trademark of Cooper Crouse-Hinds.  
 CSA Certification only.

# IBR Interlocked Switched Receptacles

CSA Certification Only. With Breaker or Disconnect Switch, Fusible or Non-fusible. Weatherproof. Watertight

For use with Powertite® ACP plugs.

NEMA 3, 3R, 4, 4X, 5, 12

(30 Ampere receptacle is not available as TYPE 4X.)

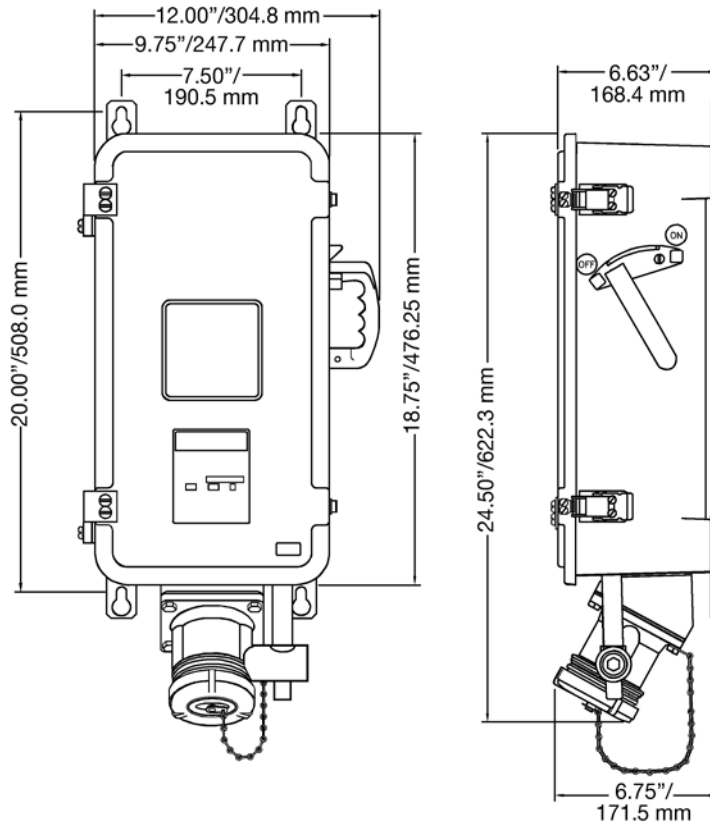
Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION



Amp.	Fusing •	HP at 600 Vac 3-Phase †	Without Viewing Window	With Viewing Window	Aux. Contacts ‡ 1 or 2 NO/NC		Mating Plug
30	Fused	7.5/20	IDSR3034	IDSR3034-W	WS30AUX1	WS30AUX2	ACP3034BC
60	Fused	15/50	IDSR6034	IDSR6034-W	WS60AUX1	WS60AUX2	ACP6034BC
100	Fused	30/70	IDSR1034	IDSR1034-W	WS100AUX1	WS100AUX2	ACP1034CD
30	Non-Fused	25	IDSR3034-NF	IDSR3034-NF-W	WS30AUX1	WS30AUX2	ACP3034BC
60	Non-Fused	60	IDSR6034-NF	IDSR6034-NF-W	WS60AUX1	WS60AUX2	ACP6034BC
100	Non-Fused	75	IDSR1034-NF	IDSR1034-NF-W	WS100AUX1	WS100AUX2	ACP6034BC

## Dimensions in Inches/Millimeters



• Fuses not included.

‡ Auxiliary contacts ordered separately for field installation.

† STD/MAX ratings based on type of fuse used eg. For IDSR 3034 – rated at 7.5 HP with standard fuse or rated at 20 HP with time delay fuse.

☞ CSA Certification only.

# AE Series Pin and Sleeve Plugs, Connectors and Receptacles

## Weatherproof

600 Vac, 250 Vdc. Pressure Wire Terminals.

### Applications

- Designed to supply power to portable or fixed electrical equipment such as:
  - Welders
  - Generators
  - Compressors
  - Pumps
  - Similar apparatus
- Suitable for use in locations where a weatherproof enclosure is required such as:
  - Shipping docks
  - Ports
  - Ship to shore applications

### Features

- Available in 30, 60, and 100 Amp units.
- Contacts exert constant pressure along the entire contact surface, providing electrical continuity. Solid brass contacts with beryllium copper springs.
- Choice of receptacle types: weatherproof spring door or raintight screw cap.
- Plug with clamp ring has neoprene gasket. Ring threads onto screw cap receptacle to provide raintight assembly when properly tightened.
- Cable clamps prevent strain on cables and allow easy cable replacement.
- Mounting box gasket protects receptacle from moisture.
- Insulating blocks provide high degree of dielectric and mechanical strength and lowest moisture absorption, lowest arc tracking.
- Choice of several mounting boxes permits different types of installations.
- Floating-type plug contacts self-align to receptacle contacts.
- Available in two grounding styles: Style 1 (shell only) and Style 2 (shell and extra pole).
- Grounding detent springs in Style 1 and Style 2.
- Grounding strap provided in Style 2 permits extra pole grounding.
- Longer ground contact in Style 2 “makes first and breaks last.”

### Standard Materials

- Plug, connector, receptacle and mounting box housings: copperfree (4/10 of 1% max.) aluminum
- Insulation blocks: fiber glass reinforced phenolic
- Contacts: brass

### Standard Finishes

- Aluminum plug, receptacle, connector, and mounting box housings: epoxy powder coat
- Insulating blocks and contacts: natural finish

### Options

- Reverse Service: useful where a “hot” plug feeds a dead receptacle. Reverse service is often used for generator applications where the receptacle houses a dead plug interior. Plug houses an energized receptacle interior, which has recessed male contacts to reduce danger of accidental touching. Suffix **-RS** to receptacle or connector.

### Certifications and Compliances

- UL Standard: UL 1682, UL 1686



# AE Series 30 Amp Pin and Sleeve Receptacles Connectors and Plugs

## Weatherproof

600 Vac, 250 Vdc. Pressure Wire Terminals. Wire Size Range: #14—#8

Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION



Grounding Style	Wire/Pole	Spring Door Receptacle Only	Screw Cap Receptacle Only	Connector Body Only	Clamping Ring Plug	Plug Cable Dia. (Inches)
Style 1 (Shell Only)	2W, 2P	<b>AE321</b>	<b>AE327</b>	<b>APR3251</b>	<b>AEP3251</b>	.625 to .750
	3W, 3P	<b>AE331</b>	<b>AE337</b>	<b>APR3351</b>	<b>AEP3351</b>	.625 to .750
	4W, 4P	<b>AE341</b>	<b>AE347</b>	<b>APR3451</b>	<b>AEP3451</b>	.625 to .750
Style 2 (Shell and Extra Pole)	2W, 3P	<b>AE332</b>	<b>AE338</b>	<b>APR3361</b>	<b>AEP3361</b>	.625 to .750
	3W, 4P	<b>AE342</b>	<b>AE348</b>	<b>APR3461</b>	<b>AEP3461</b>	.625 to .750

### AE Series Mounting Boxes



Hub Size (Inches)	AEE	AERH	AERC	AERA
1/2	<b>AEE13</b>	<b>AERH13</b>	<b>AERC13</b>	<b>AERA13</b>
3/4	<b>AEE23</b>	<b>AERH23</b>	<b>AERC23</b>	<b>AERA23</b>
1	<b>AEE33</b>	<b>AERH33</b>	<b>AERC33</b>	<b>AERA33</b>

### 30 Amp Interiors †



Grounding Style	Wire/Pole	Interior Style 1		Interior Style 2	
		Receptacle	Plug	Receptacle	Plug
Style 1 (Shell Only)	2W, 2P	<b>AEI-321</b>	<b>AEPI-321</b>	—	—
	3W, 3P	<b>AEI-331</b>	<b>AEPI-331</b>	—	—
	4W, 4P	<b>AEI-341</b>	<b>AEPI-341</b>	—	—
Style 2 (Shell and Extra Pole)	2W, 3P	—	—	<b>AEI-332</b>	<b>AEPI-332</b>
	3W, 4P	—	—	<b>AEI-342</b>	<b>AEPI-342</b>

† Pins and sleeves are not sold separately.

# AE Series 60 Amp Pin and Sleeve Receptacles Connectors and Plugs

## Weatherproof

600 Vac, 250 Vdc. Pressure Wire Terminals. Wire Size Range: #8—#4



Grounding Style	Wire/Pole	Spring Door Receptacle Only	Screw Cap Receptacle Only	Connector Body Only	Clamping Ring Plug	Plug Cable Dia. (Inches)
Style 1 (Shell Only)	2W, 2P	<b>AE621</b>	<b>AE627</b>	<b>APR6252</b>	<b>AEP6252</b>	1.000 to 1.312
	3W, 3P	<b>AE631</b>	<b>AE637</b>	<b>APR6352</b>	<b>AEP6352</b>	1.000 to 1.312
	4W, 4P	<b>AE641</b>	<b>AE647</b>	<b>APR6452</b>	<b>AEP6452</b>	1.000 to 1.312
Style 2 (Shell and Extra Pole)	2W, 3P	<b>AE632</b>	<b>AE638</b>	<b>APR6362</b>	<b>AEP6362</b>	1.000 to 1.312
	3W, 4P	<b>AE642</b>	<b>AE648</b>	<b>APR6462</b>	<b>AEP6462</b>	1.000 to 1.312

### AE Series Mounting Boxes



Hub Size (Inches)	AEE	AERH	AERC	AERA	AJA*	AJA Adapter
1	<b>AEE36</b>	<b>AERH36</b>	<b>AERC36</b>	<b>AERA36</b>	<b>AJA310</b>	<b>AJA100</b>
1-1/4	<b>AEE46</b>	<b>AERH46</b>	<b>AERC46</b>	<b>AERA46</b>	<b>AJA410</b>	<b>AJA100</b>
1-1/2	<b>AEE56</b>	<b>AERH56</b>	<b>AERC56</b>	<b>AERA56</b>	<b>AJA510</b>	<b>AJA100</b>
2	—	—	—	—	<b>AJA610</b>	<b>AJA100</b>

### 60 Amp Interiors †



Grounding Style	Wire/Pole	Interior Style 1		Interior Style 2	
		Receptacle	Plug	Receptacle	Plug
Style 1 (Shell Only)	2W, 2P	<b>AEI-621</b>	<b>AEPI-621</b>	—	—
	3W, 3P	<b>AEI-631</b>	<b>AEPI-631</b>	—	—
	4W, 4P	<b>AEI-641</b>	<b>AEPI-641</b>	—	—
Style 2 (Shell and Extra Pole)	2W, 3P	—	—	<b>AEI-632</b>	<b>AEPI-632</b>
	3W, 4P	—	—	<b>AEI-642</b>	<b>AEPI-642</b>

\* AJA Feed Thru box furnished with one close-up plug in bottom recessed hub.

† Pins and sleeves are not sold separately.

# AE Series 100 Amp Pin and Sleeve Receptacles Connectors and Plugs

## Weatherproof

600 Vac, 250 Vdc. Pressure Wire Terminals. Wire Size Range: #3—#1

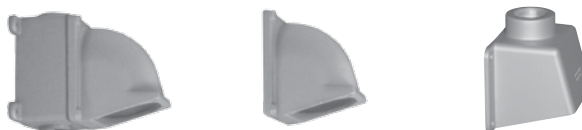
Plugs and Receptacles

PLUGS AND RECEPTACLES: ORDINARY LOCATION



Grounding Style	Wire/Pole	Spring Door Receptacle Only	Screw Cap Receptacle Only	Connector Body Only	Clamping Ring Plug	Plug Cable Dia. (Inches)
Style 1 (Shell Only)	2W, 2P	AE1021	AE1027	APR10253	AEP10253	.875, 1.437 to 1.750
	3W, 3P	AE1031	AE1037	APR10353	AEP10353	.875, 1.437 to 1.750
	4W, 4P	AE1041	AE1047	APR10453	AEP10453	.875, 1.437 to 1.750
Style 2 (Shell and Extra Pole)	2W, 3P	AE1032	AE1038	APR10363	AEP10363	.875, 1.437 to 1.750
	3W, 4P	AE1042	AE1048	APR10463	AEP10463	.875, 1.437 to 1.750

### AE Series Mounting Boxes



Hub Size (Inches)	AJA *	AJA Adapter	AEE
1	AJA310	AJA100	AEE36
1-1/4	AJA410	AJA100	AEE46
1-1/2	AJA510	AJA100	AEE56
2	AJA610	AJA100	—

### 100 Amp Interiors †



Grounding Style	Wire/Pole	Interiors Style 1		Interiors Style 2	
		Receptacle	Plug	Receptacle	Plug
Style 1 (Shell Only)	2W, 2P	AEI-1021	AEPI-1021	—	—
	3W, 3P	AEI-1031	AEPI-1031	—	—
	4W, 4P	AEI-1041	AEPI-1041	—	—
Style 2 (Shell and Extra Pole)	2W, 3P	—	—	AEI-1032	AEPI-1032
	3W, 4P	—	—	AEI-1042	AEPI-1042

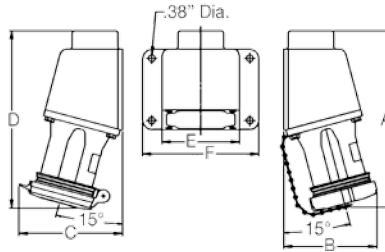
\* AJA Feed Thru box furnished with one close-up plug in bottom recessed hub.

† Pins and sleeves are not sold separately.

# AE Series 30, 60, and 100 Amp Receptacle Dimensions

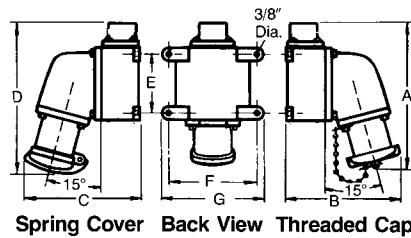
## Pin and Sleeve Plugs, Connectors and Receptacles

### Receptacle Mounted on AEE Box



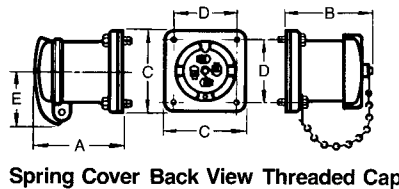
Amp	Dimensions in Inches/Millimeters					
	A	B	C	D	E	F
30	6.88/174.7	3.45/87.6	3.95/100.3	7.13/181.1	4.25/107.9	5.00/127.0
60	9.75/247.6	4.73/120.1	4.98/126.4	10.00/254.0	5.38/136.6	6.38/162.0

### Receptacle Mounted on AJA-AJAC Box



Amp	Dimensions in Inches/Millimeters						
	A	B	C	D	E	F	G
60	8.88/225.5	8.50/215.9	8.50/215.9	10.75/273.0	4.88/123.9	6.88/174.7	7.88/200.1
100	9.50/241.3	9.13/231.9	9.38/238.2	11.44/290.5	4.88/123.9	6.88/174.7	7.88/200.1

### AE Receptacle

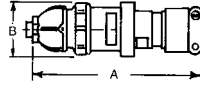


Amp	Dimensions in Inches/Millimeters				
	A	B	C	D	E
30	3.56/90.4	3.44/87.3	3.38/85.9	2.72/69.0	2.19/55.6
60	4.56/115.8	4.38/111.2	4.50/114.3	3.50/88.9	2.69/68.3
100	5.38/136.6	5.19/131.8	4.50/114.3	3.50/88.9	2.81/71.3

# AE Series 30, 60, and 100 Amp Connector, Plug and Mounting Box Dimensions

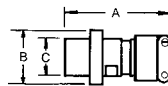
## Pin and Sleeve Plugs, Connectors and Receptacles

### APC Cable Connector



Amp	Dimensions in Inches/Millimeters	
	A	B
30	9.25/234.9	2.94/74.6
60	12.00/304.8	3.69/93.7
100	14.00/355.6	4.13/104.9

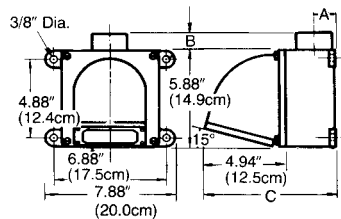
### AEP Plug



Clamping Ring

Amp	Dimensions in Inches/Millimeters		
	A	B	C
30	6.0/152.4	3.19/81.0	2.16/54.8
60	6.0/152.4	3.19/81.0	2.16/54.8
100	8.94/227.0	4.25/107.9	3.13/79.5

### AJAC and AJA Mounting Boxes †



Amp	Hub Size (Inches)	Dimensions in Inches/Millimeters		
		A	B †	C
60, 100 and 150	1	1.13/ 28.7	0.56/14.2	8.0/203.2
	1-1/4	1.13/ 28.7	0.56/14.2	8.0/203.2
	1-1/2	1.50/ 38.1	0.56/14.2	8.0/203.2
	2	1.50/ 38.1	0.56/14.2	8.0/203.2

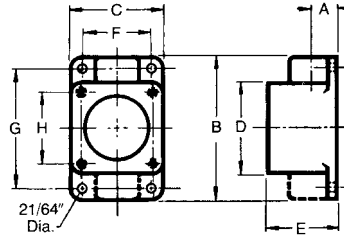
† AJA has two hubs. Close-up plug furnished in bottom recessed hub.



# AE Series Mounting Box Dimensions

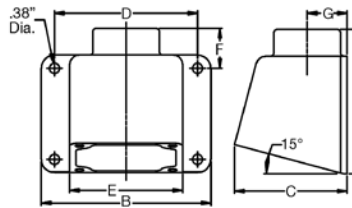
## For AE Series 30, 60, and 100 Amp Receptacles

### AERA \*, AERC ‡ and AERH Mounting Boxes



Amp	Hub Size (Inches)	Dimensions in Inches/Millimeters								
		A *	B ‡	C	D	E	F	G	H	J
30	1/2	0.69/17.5	5.31/134.8	3.38/85.8	3.38/85.8	2.50/63.5	2.63/66.8	4.56/115.8	2.72/69.0	0.94/23.8
30	3/4	0.75/19.0	5.31/134.8	3.38/85.8	3.38/85.8	2.50/63.5	2.63/66.8	4.56/115.8	2.72/69.0	0.94/23.8
30	1	0.81/20.5	5.31/134.8	3.38/85.8	3.38/8.6	2.50/63.5	2.63/66.8	4.56/115.8	2.72/69.0	0.94/23.8
60	1	0.81/20.5	6.50/165.1	4.25/107.9	4.25/107.9	3.13/79.5	3.50/88.9	5.88/149.3	3.50/88.9	1.38/35.0
60	1-1/4	0.94/23.8	6.50/165.1	4.25/107.9	4.25/107.9	3.13/79.5	3.50/88.9	5.88/149.3	3.50/88.9	1.38/35.0
60	1-1/2	1.00/25.4	6.50/165.1	4.25/107.9	4.25/107.9	3.13/79.5	3.50/88.9	5.88/149.3	3.50/88.9	1.38/35.0

### AEE Mounting Box



Amp	Hub Size (Inches)	Dimensions in Inches/Millimeters						
		A	B	C	D	E	F	G
30	1/2, 3/4, 1	4.12/104.6	5.00/127.0	3.33/84.5	4.25/107.9	3.38/85.8	1.18/29.9	1.10/27.9
60 and 100	1, 1-1/4, 1-1/2	5.41/137.4	6.38/162.0	4.23/107.4	5.38/136.6	4.25/107.9	1.50/38.1	1.50/38.1

\* Dimension "A" for AERA only.  
 ‡ Dimension "B" for AERC only.

# U-Line® Factory Sealed 20 Amp Plugs and Receptacles

## Explosionproof, Dust-Ignitionproof

Dead-Front Safety Construction. Choice of Aluminum or Thermoplastic Polyester Plug.

Class I, Division 1 and 2 Groups B\*, C, D  
Class II, Division 1 and 2 Groups F, G  
Class III  
NEMA 3, 3R, 7BCD, 9FG

### Applications

- Locations where receptacles are used with stationary or portable electrically operated devices such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor-generator sets
  - Air conditioners
  - Compressors
  - Pumps
- Locations with damp or corrosive conditions.
- Class I: classified locations where ignitable vapors or gases are present such as:
  - Petrochemical plants
  - Petroleum refineries
  - Paint and chemical plants
- Class II: classified locations such as:
  - Process industries where there are dust hazards from handling such products as flour, grain and starch or any location where ignitable amounts of dust are present or amounts which would adversely affect performance.



### Standard Materials

- U-Line receptacle and cover: copperfree (4/10 of 1% max.) aluminum
- U-Line mounting box: malleable iron
- U-Line M Series receptacle and mounting box: malleable iron
- ECP plugs: copperfree (4/10 of 1% max.) aluminum housings
- Insulating blocks: glass-filled reinforced polyester

### Standard Finishes

- Malleable iron mounting boxes: triple-coat—(1) zinc electroplate, (2) chromate and (3) epoxy powder coat
- U-Line receptacles: epoxy powder coat
- Cord connector housings and caps: epoxy powder coat

### Options

- U-Line all-aluminum receptacle cover and box. Add suffix **-A**.

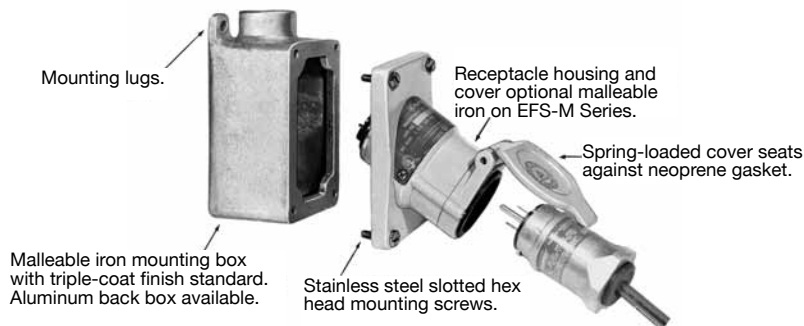
### Certifications and Compliances

- UL Listed: E10784, E81751
- UL Standard: 1203, 1010, 894
- CSA Standard: C22.2 No. 25, C22.2 No. 30, C22.2 No. 42, C22 No. 159
- CSA Certified: 038644

### Features

- Intermateable with competitor's plugs of like configurations.
- Factory sealed, external seals not required in most areas. Arcing is safely confined to receptacle interior.
- Choice of aluminum receptacle with malleable iron mounting box or all malleable iron receptacle and box.
- Energized receptacle contacts deeply recessed to reduce danger of accidental touching.
- Unique blade-type, brass contacts exert constant pressure along entire contact surface and provide superior electrical contact.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- ECP plug fits any standard non-explosionproof receptacle (NEMA 5-20R, or 6-20R) as well as U-Line explosionproof receptacles.

### Illustrated Features



U-Line NEMA 4X corrosion resistance screw cover kit available: **ULINEREC4XKIT**.



♦ See *Plugs and Receptacles: Hazardous Locations* for items suitable for Class I, Group B, C and D; Class II, Groups F, G; and Class III.

Special U-Line receptacles are UL Classified to mount on Killark SWB boxes. Killark is a registered trademark of Hubbell Incorporated.

# U-Line® Factory Sealed 20 Amp Plugs and Receptacles

## Explosionproof, Dust-Ignitionproof

Dead-Front Safety Construction. Choice of Aluminum or Thermoplastic Polyester Plug.

Class I, Division 1 and 2 Groups B+, C, D

Class II, Division 1 and 2 Groups F, G

Class III

NEMA 3, 3R, 7BCD, 9FG

### Illustrated Features

**Spring door cover** keeps dust out of receptacle when plug is not in use, which may be rotated 180° or completely removed. Stainless steel cover spring-completely enclosed for protection from corrosive environments.

**With plug in use**, neoprene gasket in throat of receptacle “seals” around plug keeping out dirt, water, dust and other foreign matter.

**With plug not in use**, spring-loaded door seats against neoprene gasket to seal receptacle from corrosive atmospheres.



**Factory sealed receptacle/switch interior.** Switch is an integral part of receptacle interior, contained in an aluminum sleeve. Protective xylan coating on inside of sleeve provides smooth “rotating” action of internal switch, which is activated by rotating plug in receptacle. Entire aluminum sleeve is sealed at both ends with neoprene O-rings to protect receptacle/switch interior against moisture.

**For safety...** Ordinary location plug will NOT activate explosionproof U-Line receptacle.

**Plug mechanical cable clamps** on the plug prevent strain on cables and meet or exceed UL 150 lb. strain relief pull-out test for classified locations.



**ECP Interchanger™ plug** fits ordinary location receptacles (NEMA 5-20R and NEMA 6-20R) and explosionproof U-Line receptacle as well competitors comparable NEMA blade configured receptacles.

**A twist of the plug** produces audible “click” to indicate fast make and break of built-in switch contacts. Twisting plug locks it in place—cannot be accidentally pulled out.

**Special neoprene watertight plug bushing** accommodates flexible cord ranging from .538” to .639” in diameter.



**Solderless lugs**—all terminals are pressure type to facilitate wiring.

**Longer plug housing** for better gripping and easier plug insertion and withdrawal.

◆ Shaded items on following pages indicate items suitable for Class I, Group B, C and D; Class II, Groups F, G; and Class III.

# U-Line® Factory Sealed 20 Amp Aluminum Receptacles

## Explosionproof, Dust-Ignitionproof

125 Vac, 20 Amp, 1 HP; 250 Vac, 20 Amp, 2 HP. Dead-Front Safety Construction.

Class I, Division 1 Groups B<sup>+</sup>, C, D  
 Class I, Division 2 Groups B, C, D  
 Class II, Division 1 and 2 Groups F, G  
 Class III

### Aluminum Receptacle and Malleable Iron Mounting Box †

Type	Wire/Pole	Hub Size (Inches)	Catalog Number	
			125 Vac, 1 HP 	250 Vac, 2 HP 

#### Single Gang

Class I, Division 1 and 2 Groups B<sup>+</sup>, C, D; Class II, Division 1 and 2 Groups F, G; Class III.

Suitable for use in Class I, Division 1, Group B when used with external seals. †



Dead-End



Feed-Thru

Dead-End	2W, 3P	1/2	1/2	3/4
		1		
Feed-Thru	2W, 3P	1/2	1/2	3/4
		3/4		
		1		

EFS150-2023	EFS150-20232
EFS175-2023	EFS175-20232
EFS110-2023	EFS110-20232
EFSC150-2023	EFSC150-20232
EFSC175-2023	EFSC175-20232
EFSC110-2023	EFSC110-20232

#### Two Gang

Class I, Division 1 and 2 Groups C, D; Class I, Division 2, Groups B, C, D; Class II, Division 1 and 2 Groups F, G; Class III.



Dead-End



Feed-Thru

Dead-End	2W, 3P	1/2	1/2	3/4
		3/4		
		1		
Feed-Thru	2W, 3P	1/2	1/2	3/4
		3/4		
		1		

EFS250-2023	EFS250-20232
EFS275-2023	EFS275-20232
EFS210-2023	EFS210-20232
EFSC250-2023	EFSC250-20232
EFSC275-2023	EFSC275-20232
EFSC210-2023	EFSC210-20232

#### Replacement Receptacles



2W, 3P  
 Spring Door Replacement Assembly (aluminum)  
 Receptacle for use on Killark † SWB Boxes.

EFSR-2023	EFSR-20232
ULSCA	
EFSR-2023K	EFSR-20232K



NEMA 4X Corrosion Resistance Kit ▼

ULINEREC4XKIT

† Standard back box malleable iron. For aluminum back box, add suffix -A to catalog number.

‡ Seals (not furnished—see Fittings Section) must be placed within 2 inches from each conduit opening. Seals are not required in Class I, Division 2 locations.

▼ NEMA Type 4X when the screw cover is installed and the cover is fully engaged.

◆ Shaded area indicates items suitable for Class I, Group B, C and D; Class II, Groups F, G; and Class III.

◇ Killark is a registered trademark of Hubbell Incorporated.

# U-Line® Factory Sealed 20 Amp Malleable Iron Receptacles

## Explosionproof, Dust-Ignitionproof

125 Vac, 20 Amp, 1 HP; 250 Vac, 20 Amp, 2 HP. Dead-Front Safety Construction.

Class I, Division 1 Groups B<sup>+</sup>, C, D  
 Class I, Division 2 Groups B, C, D  
 Class II, Division 1 and 2 Groups F, G  
 Class III

### Malleable Iron Receptacle and Malleable Iron Mounting Box

Type	Wire/Pole	Hub Size (Inches)	Catalog Number	
			125 Vac, 1 HP 	250 Vac, 2 HP 

#### Single Gang — Class I, Group B

Class I, Division 1 and 2 Groups B, C, D; Class II, Division 1 and 2 Groups F, G; Class III

These models have separate factory sealed chamber—suitable for Class I, Group B as well as Class I, Groups C and D, Class II, Groups F<sup>+</sup>, G and Class III. No external seals required.



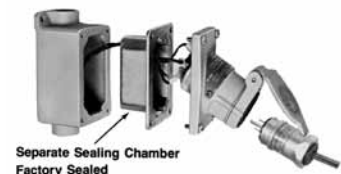
Dead-End



Feed-Thru

Dead-End	2W, 3P	1/2	1/2	3/4
		3/4		
Feed-Thru	2W, 3P	1/2	1/2	3/4
		3/4		

EFSB150-2023M	EFSB150-20232M
EFSB175-2023M	EFSB175-20232M
EFSCB150-2023M	EFSCB150-20232M
EFSCB175-2023M	EFSCB175-20232M



Separate Sealing Chamber  
Factory Sealed

#### Single Gang

Class I, Division 1 and 2 Groups B<sup>+</sup>, C, D; Class II, Division 1 and 2 Groups F, G; Class III

Suitable for use in Class I, Division 1, Group B when used with external seals. †



Dead-End



Feed-Thru

Dead-End	2W, 3P	1/2	1/2	3/4
		3/4		
		1		
Feed-Thru	2W, 3P	1/2	1/2	3/4
		3/4		
		1		

EFS150-2023M	EFS150-20232M
EFS175-2023M	EFS175-20232M
EFS110-2023M	EFS110-20232M
EFSC150-2023M	EFSC150-20232M
EFSC175-2023M	EFSC175-20232M
EFSC110-2023M	EFSC110-20232M

#### Two Gang

Class I, Division 1 and 2 Groups C, D; Class I, Division 2, Groups B, C, D; Class II, Division 1 and 2 Groups F, G; Class III.



Dead-End



Feed-Thru

Dead-End	2W, 3P	1/2	1/2	3/4
		3/4		
		1		
Feed-Thru	2W, 3P	1/2	1/2	3/4
		3/4		
		1		

EFS250-2023M	EFS250-20232M
EFS275-2023M	EFS275-20232M
EFS210-2023M	EFS210-20232M
EFSC250-2023M	EFSC250-20232M
EFSC275-2023M	EFSC275-20232M
EFSC210-2023M	EFSC210-20232M

#### Malleable Iron Replacement Receptacle Only



2W, 3P

Spring door replacement assembly (iron)

EFSR-2023M

EFSR-20232M

ULSCM

† Seals (not furnished—see Fittings Section) must be placed within 2 inches from each conduit opening. Seals are not required in Class I, Division 2 locations.

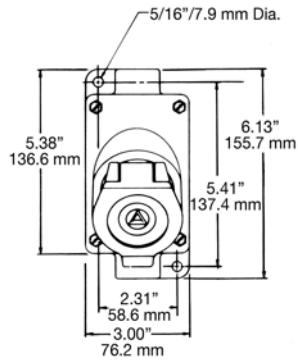
♦ Shaded area indicates items suitable for Class I, Group B, C and D; Class II, Groups F, G; and Class III.

# U-Line® Factory Sealed 20 Amp Receptacles Dimensions

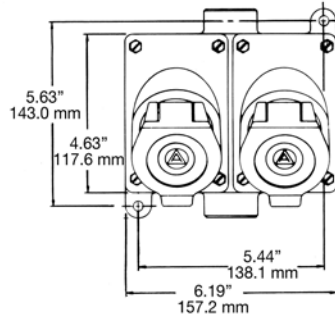
## Explosionproof, Dust-Ignitionproof

125 Vac, 20 Amp, 1 HP; 250 Vac, 20 Amp, 2 HP. Dead-Front Safety Construction.

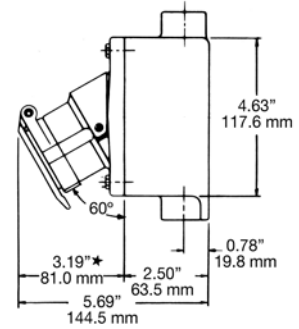
Single Gang Box



Two Gang Box



Side View



★ Malleable iron receptacle: 3.38"/85.6 mm

# 20 Amp Plugs

## For U-Line® 20 Amp Receptacles. Explosionproof, Dust-Ignitionproof

These watertight plugs also fit NEMA 5-20R or 6-20R receptacles in nonclassified areas. Choice of Aluminum or Thermoplastic Polyester Plug.

Class I, Division 1 and 2 Groups B, C, D  
 Class II, Division 1 and 2 Groups F, G  
 Class III  
 NEMA 3, 3R, 7BCD, 9FG

### Applications

- U-Line® Interchanger™ ECP plug: suitable for use in such areas as refineries, petrochemical plants, and other areas subject to where ignitable gases are present.
- NCP Plug: ideal where moisture or corrosion is a constant problem, such as production facilities on marine platforms, and pipeline transportation facilities.









### Features

- Unique blade-type, brass contacts exert constant pressure along entire contact surface and provide superior electrical contact.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- Longer plug housing for better gripping and easier plug insertion and withdrawal.

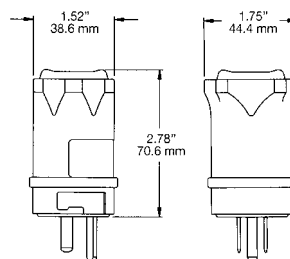
- Plugs fits any standard non-explosionproof receptacle (NEMA 5-20R, or 6-20R) as well as U-Line explosionproof receptacles.
- ECP plug: a twist of the plug produces audible “click” to indicate fast make and break of built-in switch contacts. Twisting plug locks it in place and cannot be accidentally pulled out.
- NCP plug: special neoprene watertight plug bushing accommodates flexible cord ranging from .538” to .639” diameter.

### Standard Materials

- ECP plug: copperfree (less than 4/10ths of 1%) aluminum
- NCP plug: 30% glass-reinforced thermoplastic polyester

	Amp	Diagram	Wire/ Pole	Cable Dia., (Inches)	Catalog Number	
					125 Vac, 1 HP 	250 Vac, 2 HP 
<b>U-Line® Interchanger™ ECP Standard Plug</b>						
	20		2W, 3P	.538 to .639	<b>ECP-2023</b>	—
	20		2W, 3P	.538 to .639	—	<b>ECP-20232</b>
<b>NCP Plug</b>						
	20		2W, 3P	.538 to .639	<b>NCP-2023</b>	—
	20		2W, 3P	.538 to .639	—	<b>NCP-20232</b>

### Dimensions in Inches/Millimeters



# EFSR-GFI Factory Sealed Ground Fault Circuit Interrupter

For U-Line® 20 Amp Receptacles. Explosionproof, Dust-Ignitionproof

125 Vac branch circuits. Installs in standard EFD Mounting Box.

Class I, Division 1 Groups B\*, C, D  
 Class I, Division 2 Groups B, C, D  
 Class II, Division 1 and 2 Groups E†, F, G  
 Class III  
 NEMA 3, 3R, 7BCD, 9EFG

## Applications

- Provides required ground fault protection for portable electrically-operated devices. Meets all UL and CSA requirements for ground fault protection in hazardous locations.
- Well suited for use in highly corrosive atmospheres and wet locations.
- Can be used in conjunction with U-Line® factory sealed receptacle on 20 Amp, 125 Vac branch circuits.

## Features

- Factory sealed construction; **no external seals are required.** Arcing is confined within the device's interior sealed chamber.
- Rated 20 Amp, 125 Vac, 5 mA trip setting.
- Smooth-operating test and reset buttons.
- Can be installed in standard EFD Series mounting boxes. Choice of malleable iron or aluminum, dead-end or feed-thru styles.

## Standard Materials

- Cover and sealing chamber: cast copperfree (less than 4/10ths of 1%) aluminum
- Cover bolts, test and reset buttons and shafts: stainless steel

## Standard Finish

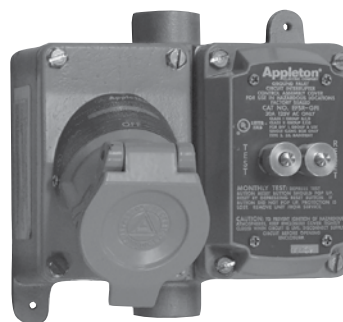
- Cover and sealing chamber: baked gray epoxy clad finish

## Certifications and Compliances

- UL Listed: E81751
- UL Standard: 943, 1203



EFSR-GFI cover mounted on single-gang EFD box. The GFI cover has separate factory sealed sealing chamber and is suitable for Class I, Group B as well as Class I, Groups C and D; Class II, Groups E, F, G and Class III.



EFSR-GFI cover installed on two-gang EFD box together with U-Line 20 Amp, 125 Vac factory sealed receptacle. Receptacle listed for Class I, Groups C and D, Class II, Groups F and G, and Class III.

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

Description	Hub Size (Inches)	Catalog Number	
		Malleable Iron	Aluminum
<b>GFI Cover and Box – Single Gang</b>			
Dead-End	1/2	EFS150-GFI	EFS150A-GFI
	3/4	EFS175-GFI	EFS175A-GFI
	1	EFS110-GFI	EFS110A-GFI
Feed-Thru	1/2	EFSC150-GFI	EFSC150A-GFI
	3/4	EFSC175-GFI	EFSC175A-GFI
	1	EFSC110-GFI	EFSC110A-GFI
<b>GFI Cover, U-Line Receptacle and Box – Two Gang</b>			
Dead-End	1/2	EFS250-2023GFI	EFS250A-2023GFI
	3/4	EFS275-2023GFI	EFS275A-2023GFI
	1	EFS210-2023GFI	EFS210A-2023GFI
Feed-Thru	1/2	EFSC250-2023GFI	EFSC250A-2023GFI
	3/4	EFSC275-2023GFI	EFSC275A-2023GFI
	1	EFSC210-2023GFI	EFSC210A-2023GFI

## Aluminum Ground Fault Interrupter Cover/Device

Cover may be used with other EFD boxes and U-Line® receptacles in this section.

EFSR-GFI

♦ Shaded area indicated items suitable for Class I, Group B.



# U-Line® 20 Amp Portable Receptacle with GFCI

## Explosionproof, Dust-Ignitionproof

125 Vac. For use on Hazardous or Non-Hazardous Receptacles.

Class I, Division 1 and 2 Groups C, D  
 Class II, Division 1 and 2 Groups F, G  
 Class III  
 NEMA 3, 3R, 7CD, 9FG

### Applications

- Provides required portable ground fault protection for electrically-operated devices. Meets all UL and CSA requirements for ground fault protection in hazardous locations.
- Well suited for use in highly corrosive atmospheres and wet locations.

### Features

- Arcing is confined within the device's interior.
- Rated 20 Amp, 125 Vac, 5 mA trip setting.
- Provides open neutral protection to maximize safety.
- High intensity LED pilot light rated at 100,000 hours
- Smooth operating test and reset buttons.
- Heavy duty 3 foot/0.91 meter SO power cord with U-Line 20 Amp NEMA 5-20R plug.
- Lightweight design.
- Convenient carry/hanging handle.
- Plug mates with competitors comparable receptacles. The receptacle also accepts their respective plugs.

### Standard Materials

- Covers and back box: cast copperfree (less than 4/10ths of 1%) aluminum
- Cover bolts, test and reset buttons and shafts: stainless steel
- Carry/hanging handle: nylon covered galvanized steel

### Standard Finish

- Covers and back box: baked gray epoxy clad finish

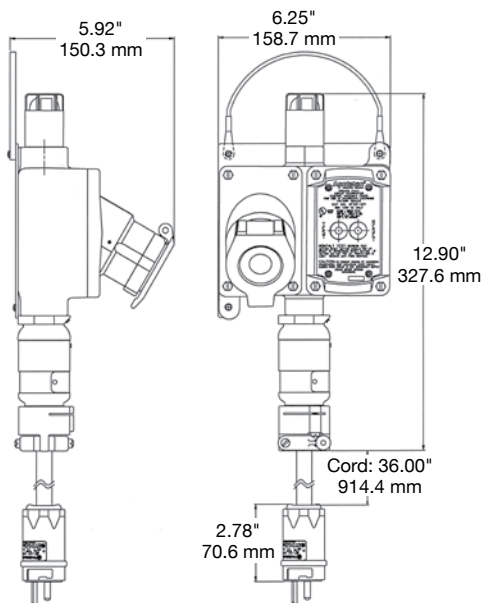
### Options

- Incandescent pilot light available, contact local sales representative.

### Compliances

- UL Standard: 943, 1203
- CSA Standard: C22.2 No. 30

### Dimensions



Amp	Pilot Light	Class I, Division 1 and 2
20	Green LED	U2023PGFID1G3
	Red LED	U2023PGFID1R3

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION





# EFD Cast Device Mounting Boxes

## For U-Line® 20 Amp Receptacles

Single, Two, Tandem, and One through Five Gang Boxes.

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

	Type	Hub Size (Inches)	Catalog Number	
			Malleable Iron	Aluminum
<b>Single Gang</b>				
	Dead-End	1/2	EFD150-NL-Q	EFD150A-NL-Q
		3/4	EFD175-NL-Q	EFD175A-NL-Q
		1	EFD110-NL-Q	EFD110A-NL-Q
	Feed-Thru	1/2	EFDC150-NL-Q	EFDC150A-NL-Q
		3/4	EFDC175-NL-Q	EFDC175A-NL-Q
		1	EFDC110-NL-Q	EFDC110A-NL-Q
<b>Two Gang</b>				
	Dead-End	1/2	EFD250-NL-Q	EFD250A-NL-Q
		3/4	EFD275-NL-Q	EFD275A-NL-Q
		1	EFD210-NL-Q	EFD210A-NL-Q
	Feed-Thru	1/2	EFDC250-NL-Q	EFDC250A-NL-Q
		3/4	EFDC275-NL-Q	EFDC275A-NL-Q
		1	EFDC210-NL-Q	EFDC210A-NL-Q
<b>Tandem †</b>				
	Dead-End	1/2	EFDT50-NL-Q	
		3/4	EFDT75-NL-Q	
		1	EFDT10-NL-Q	
	Feed-Thru	1/2	EFDC250-NL-Q	EFDC250A-NL-Q
		3/4	EFDC275-NL-Q	EFDC275A-NL-Q
		1	EFDC210-NL-Q	EFDC210A-NL-Q
<b>Blank Bodies for Brazed Hubs</b>				
<i>Construct complete catalog number per following page. Hubs will be located in center of walls and evenly spaced unless otherwise specified. Where spacings are critical, submit sketch showing spacing requirements.</i>				
	1 Gang		EFD-1-NL	
	2 Gang		EFD-2-NL	
	3 Gang		EFD-3-NL	
	4 Gang		EFD-4-NL	
	5 Gang		EFD-5-NL	

† For tandem bodies, eternal seals must be installed within 5 feet/1.52 meters of each conduit entrance or Class I, Group C and D.

# EFD Blank Cast Device Boxes

## Drilling Information for Brazed Threaded and Union Hubs for U-Line® 20 Amp Receptacles

Single, Two, Three, Four and Five Gang Boxes.

### Determine catalog number as follows:

- (1) Select EFD device box catalog number.
- (2) Select "Standard Hub Arrangement Diagram" number.
- (3) Select symbols that represent hub sizes from "Symbol Table." (Use "0" where no hub is required, and separate the various divisions of the complete catalog number by dashes.)

### Example

The blank body device box selected is EFD3NL and the hub arrangement is diagram #8. Hub "a" is to be 3/4" brazed threaded; hub "b", 1" brazed threaded; hub "c", 3/4" brazed threaded; hub "d", no hub is required; and hub "e", 1" brazed union.

The complete catalog number will be:  
**EFD-3NL-8-23203E**

If a "Standard Hub Arrangement" is not suitable for the application, or when hubs are to be more accurately spaced, submit sketch locating hubs (1) from centerlines of walls and (2) from outside back of box (or from mounting lug surface if lugs are supplied).

**All hubs will be located in centerlines of walls and evenly spaced unless otherwise specified.**

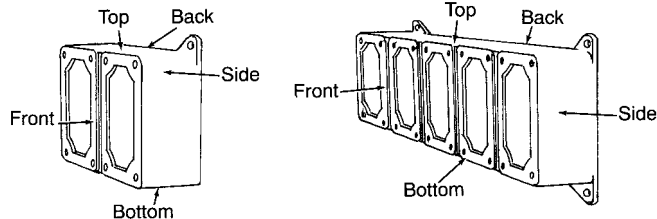
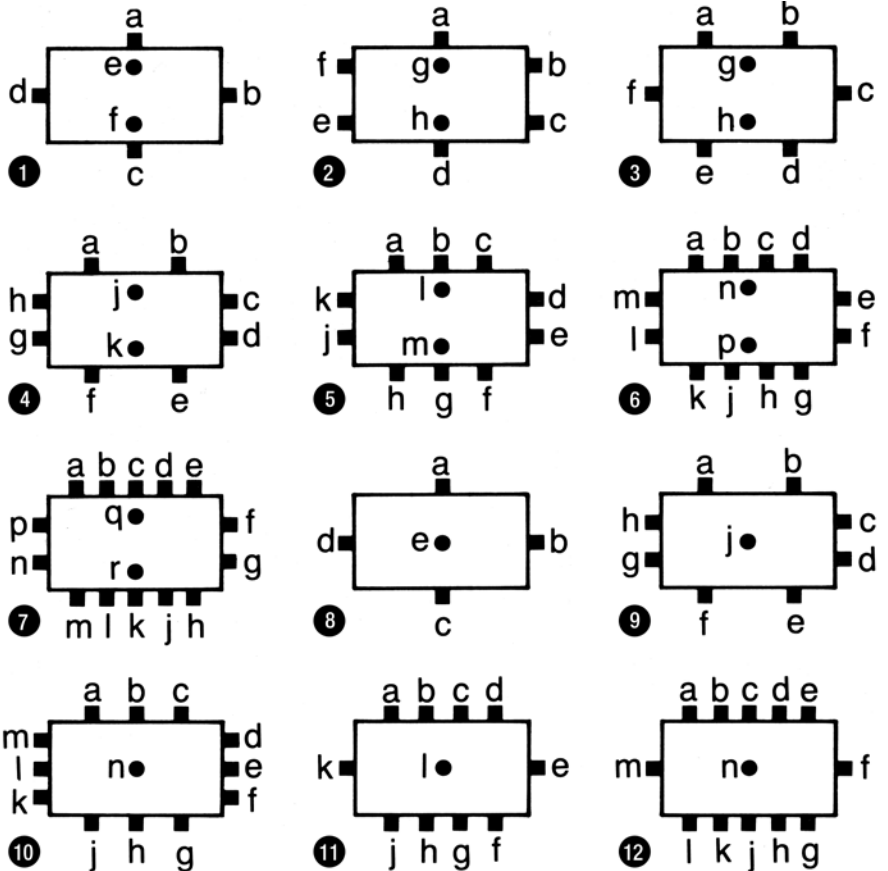
### Symbol Table

Hub Size (Inches)	Brazed Threaded Hub Symbol	Brazed Union Hub Symbol
Blank	0	0
1/2	1	1E
3/4	2	2E
1	3	3E

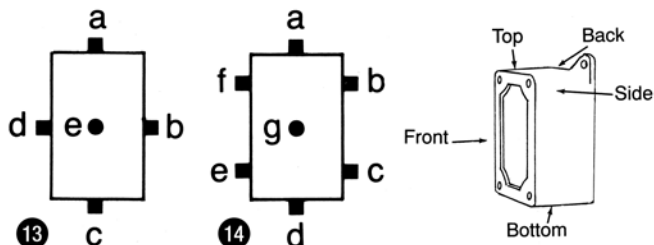
### Standard Hub Arrangement Diagrams

Hub "a" is always TOP of box

#### Two, Three, Four and Five Gang (Front View)



#### One Gang (Front View)



# U-Line® Factory Sealed 15 and 20 Amp Plugs and Receptacles

CSA Certification Only. Explosionproof, Dust-Ignitionproof

Dead-Front Safety Construction – Grounding through Extra Pole and Shell.

Class I, Division 1 and 2 Groups B, C, D  
Class II, Division 1 and 2 Group G and Coal Dust  
Class III  
CSA Type 7BCD, 9G

## Applications

- Locations where receptacles are used with stationary or portable electrically operated devices such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor-generator sets
  - Air conditioners
  - Compressors
  - Pumps
- Locations with damp or corrosive conditions.
- Class I: classified locations where ignitable vapors or gases are present such as:
  - Petrochemical plants
  - Petroleum refineries
  - Paint and chemical plants
- Class II: classified locations such as:
  - Process industries where there are dust hazards from handling such products as flour, grain and starch or any location where ignitable amounts of dust are present or amounts which would adversely affect performance.



## Standard Materials

- Receptacle, cover and mounting box: copperfree (4/10 of 1% max.) aluminum
- ECP plugs: copperfree (4/10 of 1% max.) aluminum housings
- Insulating blocks: glass-filled reinforced polyester

## Standard Finishes

- Receptacles: epoxy powder coat
- Cord connector housings and caps: epoxy powder coat

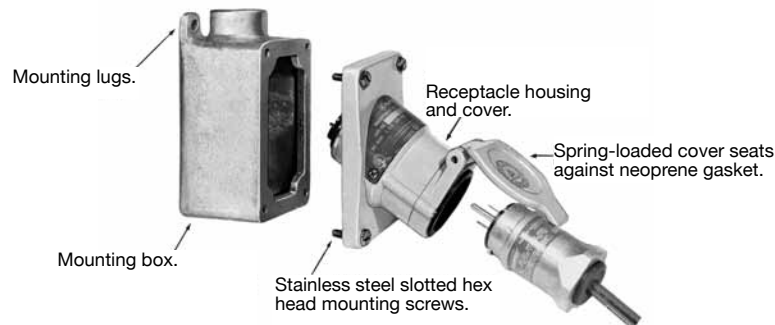
## Certifications and Compliances

- CSA Standard: C22.2 No. 25, C22.2 No. 30, C22.2 No 42, C22.2 No.159
- CSA Certified: 038644

## Features

- Intermateable with competitor's plugs of like configurations.
- Factory sealed, external seals not required. Arcing is safely confined to receptacle interior.
- Energized receptacle contacts deeply recessed to reduce danger of accidental touching.
- Unique blade-type, brass contacts exert constant pressure along entire contact surface and provide superior electrical contact.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- ECP plug fits any standard non-explosionproof receptacle (NEMA 5-15R, 5-20R, or 6-20R) as well as U-Line explosionproof receptacles.

## Illustrated Features



CSA Approved when used with Killark® "UGR" Series and Crouse-Hinds® "ENR" Series receptacles. Crouse-Hinds and ENP are registered trademarks of Cooper Crouse-Hinds. Killark and UGR are registered trademarks of Hubbell Incorporated.

⚡ CSA Certification only.

# U-Line® Factory Sealed 15 and 20 Amp Plugs and Receptacles

CSA Certification Only. Explosionproof, Dust-Ignitionproof

Dead-Front Safety Construction – Grounding through Extra Pole and Shell.

Class I, Division 1 and 2 Groups B, C, D  
Class II, Division 1 and 2 Group G and Coal Dust  
Class III  
CSA Type 7BCD, 9G

## Illustrated Features

**Spring door cover** keeps dust out of receptacle when plug is not in use, which may be rotated 180° or completely removed. Stainless steel cover spring-completely enclosed for protection from corrosive environments. Cover may be used with hinge at top (standard) or rotated 180° to put hinge at bottom.

**Factory sealed receptacle/switch interior.** Switch is an integral part of receptacle interior, contained in an aluminum sleeve. Protective xylan coating on inside of sleeve provides smooth “rotating” action of internal switch, which is activated by rotating plug in receptacle. Entire aluminum sleeve is sealed at both ends with neoprene O-rings to protect receptacle/switch interior against moisture.

**ECP Interchanger™ plug** fits ordinary location receptacles (NEMA 5-20R or 15R and NEMA 6-20R) and explosionproof U-Line receptacle as well competitors comparable NEMA blade configured receptacles.

**Solderless lugs**—all terminals are pressure type to facilitate wiring.

**Longer plug housing** for better gripping and easier plug insertion and withdrawal.

**Knock-out in plug** insulator permits “potting” of terminations for positive protection in severe environments.

**A twist of the plug** produces audible “click” to indicate fast make and break of built-in switch contacts. Twisting plug locks it in place—cannot be accidentally pulled out.

**With plug in use,** neoprene gasket in throat of receptacle “seals” around plug keeping out dirt, water, dust and other foreign matter.

**With plug not in use,** spring-loaded door seats against neoprene gasket to seal receptacle from corrosive atmospheres.



**For safety...** Ordinary location plug will NOT activate explosionproof U-Line receptacle.

**Plug mechanical cable clamps** on the plug prevent strain on cables and meet or exceed UL 150 lb. strain relief pull-out test for classified locations.



**Special neoprene watertight plug bushing** accommodates flexible cord ranging from .538” to .639” in diameter.



 CSA Certification only.




# U-Line® Factory Sealed 15 and 20 Amp Plugs and Receptacles

CSA Certification Only. Explosionproof, Dust-Ignitionproof



Dead-Front Safety Construction – Grounding through Extra Pole and Shell.

Class I, Division 1 and 2 Groups B, C, D  
 Class II, Division 1 and 2 Group G and Coal Dust  
 Class III  
 CSA Type 7BCD, 9G

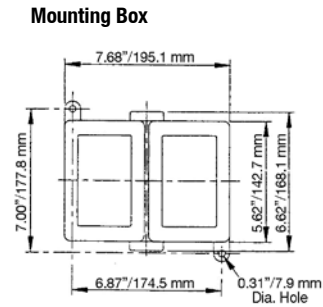
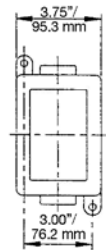
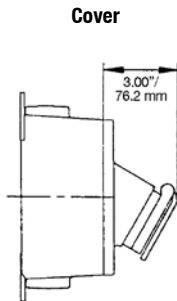
## Receptacle and Cover Assembly

Description	Catalog Number	
	125 Vac, 1 HP 	250 Vac, 2 HP 
 20 Amp	ECSK-2023	ECSK-20232

## Mounting Box – Complete with 1 Close-Up Plug

	Hub Size	Catalog Number
<b>Single Gang</b>		
	3/4"	ECS-175
	1"	ECS-110
<b>Two Gang</b>		
	3/4"	ECS-275
	1"	ECS-210

## Dimensions



Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

 CSA Certification only.

# U-Line® Factory Sealed 15 and 20 Amp Plugs

## Explosionproof, Dust-Ignitionproof

These watertight plugs also fit NEMA 5-15R, 5-20R or 6-20R receptacles in nonclassified areas. Choice of Aluminum or Thermoplastic Polyester Plug.

Class I, Division 1 and 2 Groups B, C, D  
 Class II, Division 1 and 2 Group G and Coal Dust  
 Class III  
 CSA Type 7BCD, 9G

### Applications

- U-Line® Interchanger™ ECP plug: suitable for use in such areas as refineries, petrochemical plants, and other areas subject to where ignitable gases are present.
- NCP Plug: ideal where moisture or corrosion is a constant problem, such as production facilities on marine platforms, and pipeline transportation facilities.











### Features

- Unique blade-type, brass contacts exert constant pressure along entire contact surface and provide superior electrical contact.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- Longer plug housing for better gripping and easier plug insertion and withdrawal.

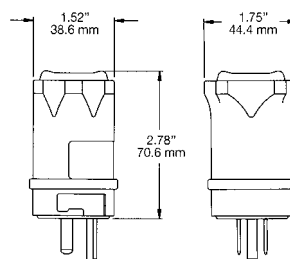
- Plugs fits any standard non-explosionproof receptacle (NEMA 5-15R, 5-20R, or 6-20R) as well as U-Line explosionproof receptacles.
- 15 Amp ECP1523 125 Vac and 20 Amp ECP2023 125 Vac U-Line plugs are for use in the T-slot configured 20 Amp U-Line receptacle. ie ECSK-2023.
- ECP plug: a twist of the plug produces audible “click” to indicate fast make and break of built-in switch contacts. Twisting plug locks it in place and cannot be accidentally pulled out.
- NCP plug: special neoprene watertight plug bushing accommodates flexible cord ranging from .538” to .639” diameter.

### Standard Materials

- ECP plug: copperfree (less than 4/10ths of 1%) aluminum
- NCP plug: 30% glass-reinforced thermoplastic polyester

	Amp	Diagram	Wire/ Pole	Cable Dia., (Inches)	Catalog Number	
					125 Vac, 1 HP 	250 Vac, 2 HP 
<b>U-Line® Interchanger™ ECP Standard Plug</b>						
	15		2W, 3P	.538 to .639	<b>ECP-1523</b>	—
	20		2W, 3P	.538 to .639	<b>ECP-2023</b>	—
	20		2W, 3P	.538 to .639	—	<b>ECP-20232</b>
<b>NCP Plug</b>						
	15		2W, 3P	.538 to .639	<b>NCP-1523</b>	—
	20		2W, 3P	.538 to .639	<b>NCP-2023</b>	—
	20		2W, 3P	.538 to .639	—	<b>NCP-20232</b>

### Dimensions



 CSA Certification only.

# U-Line® 20 Amp ECK-GFI Ground Fault Circuit Interrupter and Receptacle

CSA Certification Only. Explosionproof, Dust-Ignitionproof

Dead-Front Safety Construction – Grounding through Extra Pole and Shell.

Class I, Division 1 and 2, Groups B, C, D  
Class I Zone 1 and 2, IIB + H<sub>2</sub> T6  
Class II, Division 1 and 2, Groups E, F, G  
Class III, Encl. 3R, weatherproof  
CSA Type 3R, 7BCD, 9EFG  
CSA Approved

Class I, Division 1 and 2 Groups B, C, D  
Class II, Division 1 and 2 Group G and Coal Dust  
Class III  
CSA Type 7BCD, 9G

## Applications

- Provides required ground fault protection for portable electrically-operated devices. Meets all CSA requirements for ground fault protection in hazardous locations.
- Well suited for use in highly corrosive atmospheres and wet locations.
- Can be used in conjunction with U-Line factory sealed receptacle on 20 Amp, 125 Vac branch circuits.

## Features

- Rated 20 Amp, 125 Vac, 5 mA trip setting. 0.075 second trip time.
- Smooth-operating test and reset buttons.
- Can be installed in standard ECS Series mounting boxes.

## Standard Materials

- Cover: cast copperfree (less than 4/10ths of 1%) aluminum
- Push Buttons: Aluminum Upper Barrel and phelonic lower barrel (Dust cap models have neoprene buttons)

## Standard Finish

- Cover: baked gray epoxy clad finish

## Options

- Securing rod for push button factory sealed units. Add suffix — **S153**.
- CSA Type 4X enclosure and cover. Add suffix — **4X**.
- Flush mounted single LED trip indicator light. Add suffix **-LED**.

## Certifications and Compliances

- CSA Standard: C22.2 No. 25, C22.2 No. 30, C22.2 No.42, C22.2 No. 159
- CSA Certified: 038644



Ground Fault Circuit Interrupter Cover Assembly



2-Gang — GFCI and Receptacle




# U-Line® 20 Amp ECK-GFI Ground Fault Circuit Interrupter and Receptacle

CSA Certification Only. Explosionproof, Dust-Ignitionproof


Dead-Front Safety Construction – Grounding through Extra Pole and Shell.

Class I, Division 1 and 2, Groups B, C, D  
 Class I Zone 1 and 2, IIB + H<sub>2</sub> T6  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III, Encl. 3R, weatherproof  
 CSA Type 3R, 7BCD, 9EFG  
 CSA Approved


Class I, Division 1 and 2 Groups B, C, D  
 Class II, Division 1 and 2 Group G and Coal Dust  
 Class III  
 CSA Type 7BCD, 9G


	Hub Size (Inches)	Electrical Rating	Catalog Number
<b>Ground Fault Circuit Interrupter – 1-Gang – Non-Factory Sealed Devices</b>			
	1/2 – 3/4	20 Amp 120 Vac, 5 mA Trip 0.075 Sec. Trip Time	<b>ECS2GFI</b>
	1	20 Amp 120 Vac, 5 mA Trip 0.075 Sec. Trip Time	<b>ECS4GFI</b>

## U-Line Receptacles – Factory Sealed Device. Not approved for Group E \*

	Hub Size (Inches)	Electrical Rating	Catalog Number
<b>1-Gang</b>			
	1/2 – 3/4	20 Amp 125 Vac, 1 HP	<b>ECS32023</b>
	1	20 Amp 125 Vac, 1 HP	<b>ECS52023</b>
	1/2 – 3/4	20 Amp 250 Vac, 2 HP	<b>ECS320232</b>
	1	20 Amp 250 Vac, 2 HP	<b>ECS520232</b>
<b>2-Gang with two, single receptacle covers</b>			
	1/2 – 3/4	15/20 Amp 125 Vac, 1 HP	<b>ECS72023</b>
	1	15/20 Amp 125 Vac, 1 HP	<b>ECS92023</b>
	1/2 – 3/4	15/20 Amp 250 Vac, 2 HP	<b>ECS720232</b>
	1	15/20 Amp 250 Vac, 2 HP	<b>ECS920232</b>

## U-Line Plugs and Receptacles with Ground Fault Protection – 2-Gang – Non-Factory Sealed Devices

	1/2 – 3/4	20 Amp 125 Vac, 1 HP	<b>ECS6GFI2023</b>
	1	20 Amp 125 Vac, 1 HP	<b>ECS8GFI2023</b>

	Description	Hub Size (Inches)	Catalog Number	
			Single Gang	Two Gang
<b>Ground Fault Circuit Interrupter Cover Assembly</b>				
	Ground Fault Circuit Interrupter (Cover Assembly)		<b>ECSK-GFI</b>	
	Receptacle Cover Assembly		<b>ECSK-2023</b>	

\* Approved for Group F with non-electrically conductive dusts.  
 † CSA Certification only.

# U-Line® Contender® Factory Sealed 20 Amp Plugs and Receptacles

## Explosionproof, Dust-Ignitionproof

Class I, Groups C, D  
Class I, Division 2, Group B  
Class I, Zone 1, Group IIB  
Class I, Zone 2, Group IIB + H<sub>2</sub>  
Class II, Groups F, G  
Class III

NEMA 3RX•

### Applications

- Locations where receptacles are used with stationary or portable electrically operated devices such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor-generator sets
  - Air conditioners
  - Compressors
  - Pumps
- Locations where damp or corrosive conditions exist.

### Features

- Covers are UL Listed when used with Contender® Series back boxes.
- ECP plug fits any standard non-explosionproof receptacle (NEMA 5-20R, or 6-20R) as well as U-Line explosionproof receptacles.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- Dead front design: receptacle is not energized until plug is fully inserted and switch is engaged.

### Standard Materials

- Cover: copperfree (4/10 of 1% max.) aluminum
- Back box: malleable iron
- Insulating blocks: fiberglass reinforced thermoset polyester

### Standard Finishes

- Malleable iron mounting boxes: triple-coat– (1) zinc electroplate, (2) chromate and (3) epoxy powder coat
- Covers and aluminum back boxes: epoxy powder coat

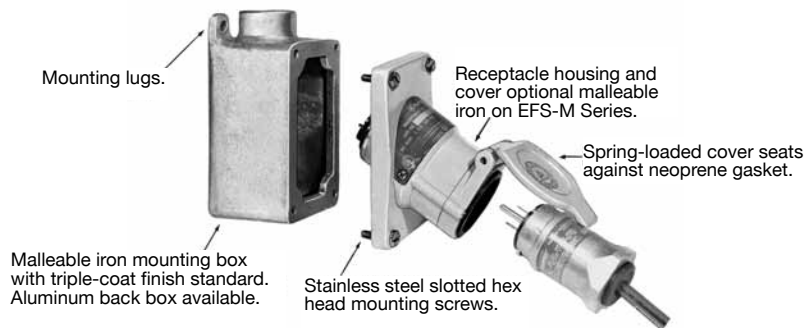
### Options

- Copperfree (4/10 of 1% max.) aluminum receptacle cover and box. Add suffix **-SA**.

### Certifications and Compliances

- UL Listed: E10784
- UL Standard: UL 1203, UL 1010, UL 894

### Illustrated Features



### Related Products

- U-Line Contender receptacles only available for use in combination with 1- and 2-gang EDS boxes incorporating such devices as pilot lights, switches and push buttons. See *Controls Section*.

U-Line NEMA 4X corrosion resistance screw cover kit available: **ULINEREC4XKIT**.



- NEMA Type 4X when the screw cover kit is installed and the cover is fully engaged.

Covers are UL Classified to mount on Crouse-Hinds® EDS back boxes. Appleton "ENR" Series receptacles are UL Classified for use with Crouse-Hinds® ENP Series plugs. Crouse-Hinds, EDS and ENP are registered trademarks of Cooper Crouse-Hinds.

# U-Line® Contender® Factory Sealed 20 Amp Plugs and Receptacles

## Explosionproof, Dust-Ignitionproof

Class I, Groups C, D  
 Class I, Division 2, Group B  
 Class I, Zone 1, Group IIB  
 Class I, Zone 2, Group IIB + H<sub>2</sub>  
 Class II, Groups F, G  
 Class III

NEMA 3RX•

### Illustrated Features

**Spring door cover** keeps dust out of receptacle when plug is not in use, which may be rotated 180° or completely removed. Stainless steel cover spring-completely enclosed for protection from corrosive environments.

**With plug in use**, neoprene gasket in throat of receptacle “seals” around plug keeping out dirt, water, dust and other foreign matter.

**With plug not in use**, spring-loaded door seats against neoprene gasket to seal receptacle from corrosive atmospheres.

**Factory sealed receptacle/switch interior.** Switch is an integral part of receptacle interior, contained in an aluminum sleeve. Protective xylan coating on inside of sleeve provides smooth “rotating” action of internal switch, which is activated by rotating plug in receptacle. Entire aluminum sleeve is sealed at both ends with neoprene O-rings to protect receptacle/switch interior against moisture.



**ECP Interchanger™ plug** fits ordinary location receptacles (NEMA 5-20R and NEMA 6-20R) and explosionproof U-Line receptacle as well competitors comparable NEMA blade configured receptacles.

**For safety...** Ordinary location plug will NOT activate explosionproof U-Line receptacle.

**Plug mechanical cable clamps** on the plug prevent strain on cables and meet or exceed UL 150 lb. strain relief pull-out test for classified locations.

**A twist of the plug** produces audible “click” to indicate fast make and break of built-in switch contacts. Twisting plug locks it in place—cannot be accidentally pulled out.



**Special neoprene watertight plug bushing** accommodates flexible cord ranging from .538” to .639” in diameter.



**Solderless lugs**—all terminals are pressure type to facilitate wiring.

**Longer plug housing** for better gripping and easier plug insertion and withdrawal.







• NEMA Type 3RX when the screw cover kit is installed and the cover is fully engaged.

# U-Line® Contender® Factory Sealed 20 Amp Receptacles

## Explosionproof, Dust-Ignitionproof

Class I, Groups C, D  
 Class I, Division 2, Group B  
 Class I, Zone 1, Group IIB  
 Class I, Zone 2, Group IIB + H<sub>2</sub>  
 Class II, Groups F, G  
 Class III

NEMA 3RX•

		Catalog Numbers †		
		125 Vac	250 Vac	
Type	Hub Size			
<b>Single Gang</b>				
 Dead-End      Feed-Thru	Dead-End	1/2	ENR11201	ENR11202
		3/4	ENR21201	ENR21202
		1	ENR31201	ENR31202
	Feed-Thru	1/2	ENRC11201	ENRC11202
		3/4	ENRC21201	ENRC21202
		1	ENRC31201	ENRC31202
<b>Two Gang</b>				
	Dead-End	1/2	ENR12201	ENR12202
		3/4	ENR22201	ENR22202
		1	ENR32201	ENR32202
	Feed-Thru	1/2	ENRC12201	ENRC12202
		3/4	ENRC22201	ENRC22202
		1	ENRC32201	ENRC32202
<b>Replacement Receptacles</b>				
	Receptacle Cover Assembly	ENR5201	ENR6202	
	Spring Cover Replacement Kit (Aluminum)	ULSCA		
	NEMA 4X Corrosion Resistance Kit ▼	ULINEREC4XKIT		

† Standard back box malleable iron. For aluminum back box, add suffix **-SA** to catalog number.

▼ NEMA Type 4X when the screw cover is installed and the cover is fully engaged.

# 20 Amp Plugs

## For U-Line® Contender® 20 Amp Receptacles. Explosionproof, Dust-Ignitionproof

These watertight plugs also fit NEMA 5-20R or 6-20R receptacles in nonclassified areas. Choice of Aluminum or Thermoplastic Polyester Plug.

Class I, Division 1 and 2 Groups B, C, D  
 Class II, Division 1 and 2 Groups F, G  
 Class III  
 NEMA 3, 3R, 7BCD, 9FG

### Applications

- U-Line® Interchanger™ ECP plug: suitable for use in such areas as refineries, petrochemical plants, and other areas subject to where ignitable gases are present.
- NCP Plug: ideal where moisture or corrosion is a constant problem, such as production facilities on marine platforms, and pipeline transportation facilities.









### Features

- Unique blade-type, brass contacts exert constant pressure along entire contact surface and provide superior electrical contact.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- Longer plug housing for better gripping and easier plug insertion and withdrawal.

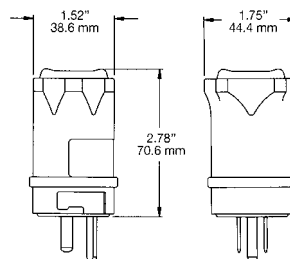
- Plugs fits any standard non-explosionproof receptacle (NEMA 5-20R, or 6-20R) as well as U-Line explosionproof receptacles.
- ECP plug: a twist of the plug produces audible “click” to indicate fast make and break of built-in switch contacts. Twisting plug locks it in place and cannot be accidentally pulled out.
- NCP plug: special neoprene watertight plug bushing accommodates flexible cord ranging from .538” to .639” diameter.

### Standard Materials

- ECP plug: copperfree (less than 4/10ths of 1%) aluminum.
- NCP plug: 30% glass-reinforced thermoplastic polyester.

	Amp	Diagram	Wire/ Pole	Cable Dia., (Inches)	Catalog Number	
					125 Vac, 1 HP 	250 Vac, 2 HP 
<b>U-Line® Interchanger™ ECP Standard Plug</b>						
	20		2W, 3P	.538 to .639	<b>ECP-2023</b>	—
	20		2W, 3P	.538 to .639	—	<b>ECP-20232</b>
<b>NCP Plug</b>						
	20		2W, 3P	.538 to .639	<b>NCP-2023</b>	—
	20		2W, 3P	.538 to .639	—	<b>NCP-20232</b>

### Dimensions



# GFS-1 Factory Sealed Ground Fault Circuit Interrupter

For U-Line® Contender® 20 Amp Receptacles. Explosionproof, Dust-Ignitionproof

125 Vac Branch Circuits. Installs in Standard Contender Series Mounting Box.

Class I, Division 1 and 2, Groups C, D  
 Class II, Division 1 and 2, Groups E, F, G  
 Class III  
 NEMA 3RX, 7CD, 9EFG

## Applications

- Provides required ground fault protection for portable electrically-operated devices. Meets all UL and CSA requirements for ground fault protection in hazardous locations.
- Well suited for use in highly corrosive atmospheres and wet locations.
- Can be used in conjunction with U-Line factory sealed Contender receptacle on 20 Amp, 125 Vac branch circuits.

## Features

- Covers are UL Listed when used with Contender® Series back boxes.
- Factory sealed construction; no external seals are required. Arcing is confined within the device's interior sealed chamber.
- Rated 20 Amp, 125 Vac, 5 mA trip setting.
- Smooth-operating test and reset buttons.

## Standard Materials

- Cover and sealing chamber cast copperfree (less than 4/10 of 1%) aluminum
- Cover bolts, test and reset buttons and shafts: stainless steel

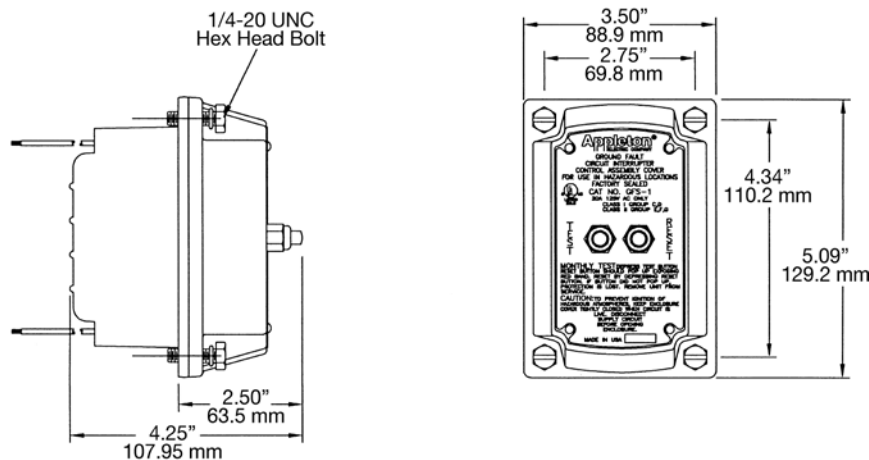
## Certifications and Compliances

- UL Listed: E81751
- UL Standard: UL 943, UL 1203



Description	Catalog Number
Aluminum Ground Fault Interrupter Cover/Device	GFS-1




## Dimensions



Covers are UL Classified to mount on Crouse-Hinds® EDS back boxes. Crouse-Hinds, EDS and ENP are registered trademarks of Cooper Crouse-Hinds.

# EDS Cast Device Mounting Boxes and Dimensions

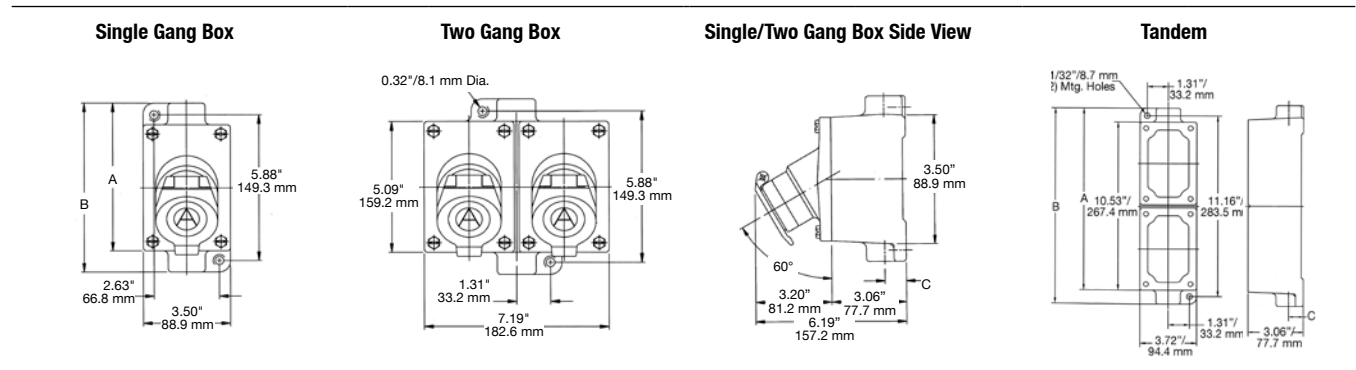
## For U-Line® Contender® 20 Amp Receptacles

	Type	Hub Size (Inches)	Dimensions in Inches/Millimeters			Catalog Number	
			A	B	C	Malleable Iron	Aluminum
<b>Single Gang</b> 	Dead-End	1/2	6.06/153.9	6.81/172.9	0.75/19.0	<b>EDS171</b>	<b>EDS171-SA</b>
		3/4	6.06/153.9	6.81/172.9	0.88/22.3	<b>EDS271</b>	<b>EDS271-SA</b>
		1	6.17/156.7	7.03/178.5	1.00/25.4	<b>EDS371</b>	<b>EDS371-SA</b>
	Feed-Thru	1/2	6.06/153.9	6.81/172.9	0.75/19.0	<b>EDSC171</b>	<b>EDSC171-SA</b>
		3/4	6.06/153.9	6.81/172.9	0.88/22.3	<b>EDSC271</b>	<b>EDSC271-SA</b>
		1	6.17/156.7	7.03/178.5	1.00/25.4	<b>EDSC371</b>	<b>EDSC371-SA</b>
<b>Two Gang</b> 	Dead-End	1/2	6.06/153.9	6.81/172.9	0.88/22.3	<b>EDS172</b>	<b>EDS172-SA</b>
		3/4	6.06/153.9	6.81/172.9	0.88/22.3	<b>EDS272</b>	<b>EDS272-SA</b>
		1	6.17/156.7	7.03/178.5	1.00/25.4	<b>EDS372</b>	<b>EDS372-SA</b>
	Feed-Thru	1/2	6.06/153.9	6.81/172.9	0.88/22.3	<b>EDSC172</b>	<b>EDSC172-SA</b>
		3/4	6.06/153.9	6.81/172.9	0.88/22.3	<b>EDSC272</b>	<b>EDSC272-SA</b>
		1	6.17/156.7	7.03/178.5	1.00/25.4	<b>EDSC372</b>	<b>EDSC372-SA</b>
<b>Tandem †</b> 	Dead-End	1/2	11.31/287.2	12.09/307.0	0.88/22.3	<b>EDS147</b>	<b>EDS147-SA</b>
		3/4	11.31/287.2	12.09/307.0	0.88/22.3	<b>EDS247</b>	<b>EDS247-SA</b>
		1	11.44/290.5	12.31/312.6	1.00/25.4	<b>EDS347</b>	<b>EDS347-SA</b>
	Feed-Thru	1/2	11.31/287.2	12.09/307.0	0.88/22.3	<b>EDSC147</b>	<b>EDSC147-SA</b>
		3/4	11.31/287.2	12.09/307.0	0.88/22.3	<b>EDSC247</b>	<b>EDSC247-SA</b>
		1	11.44/290.5	12.31/312.6	1.00/25.4	<b>EDSC347</b>	<b>EDSC347-SA</b>

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

### Dimensions



† For tandem bodies, external seals must be installed within 5 feet/1.52 meters of each conduit entrance for Class I, Groups C and D.

# U-Line® N1 Series 20 Amp Plugs and Receptacles

## With Nonmetallic Intraground® Enclosure. Explosionproof

125 Vac, 20 Amp, 1 HP; 250 Vac, 20 Amp, 2 HP. Dead-Front Safety Construction.

Class I, Division 1, Groups C, D  
Class I, Division 2, Groups B, C, D  
NEMA 3, 3R, 3RX, 4X, 7CD, 12

### Applications

- Locations where receptacles are used with stationary or portable electrically operated devices such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor-generator sets
  - Air conditioners
  - Compressors
  - Pumps
- Locations where damp or corrosive conditions exist.

### Features

- Nonmetallic construction with metal imbedded grounding grid.
- Feed-thru or dead-end grounded 1/2" or 3/4" conduit openings for threaded conduit.
- Special grounding wire provides safe grounding when cover is removed.
- Excellent resistance to ultraviolet light and water.
- Excellent conduit connection strength.
- Superior flammability resistance.
- Enclosure walls are 5/16" thick.
- Silicone gasket, specially designed for the labyrinth-path joint, prevents entrance of moisture without interfering with the venting of cooled hazardous gases and vapors.
- Explosionproof when sealing fittings (sold separately) are installed at each conduit entrance.
- Excellent resistance to fungi, mold.

### Materials

- Mounting box: natural color, high strength thermoplastic polyetherimide
- Gasket: silicone

### Certifications and Compliances

- UL Standard: UL 1010 (UL 1203)
- UL Listed: E10784

### Related Products

- Sealing fitting must be installed at each conduit entrance of the N1 enclosure to be explosionproof. See *Fittings Section*.



### Illustrated Features

Unique labyrinth-path construction assures flame-tight joint between body and cover.



Aluminium grounding grid, imbedded into the nonmetallic enclosure during molding, provides complete grounding system. No field work. No extra grounding wires or parts required.










# U-Line® N1 Series 20 Amp Receptacles

## With Nonmetallic Intraground® Enclosure. Explosionproof

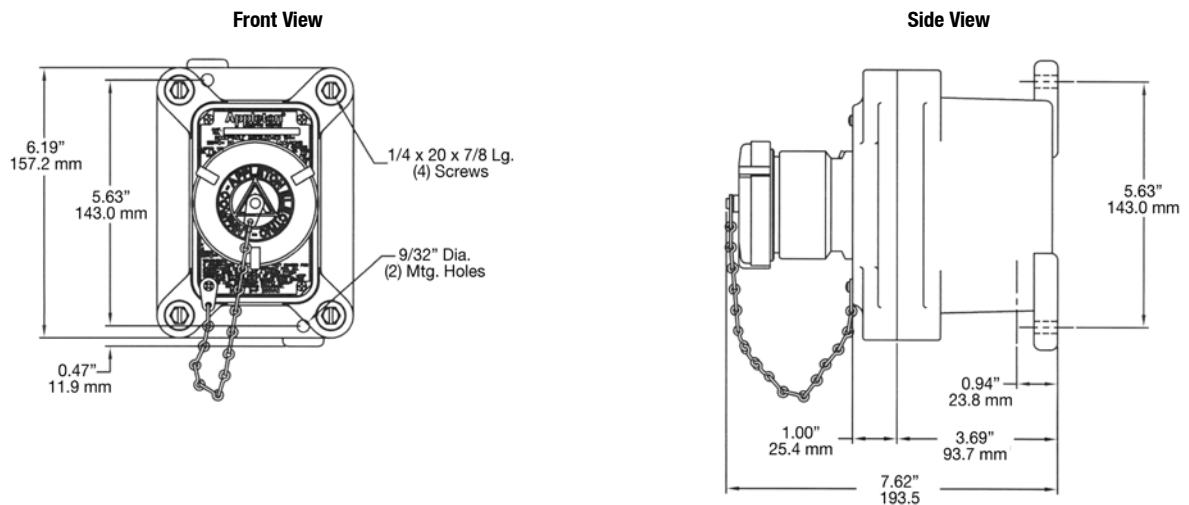
125 Vac, 20 Amp, 1 HP; 250 Vac, 20 Amp, 2 HP. Dead-Front Safety Construction.

Class I, Division 1, Groups C, D  
 Class I, Division 2, Groups B, C, D  
 NEMA 3, 3R, 3RX, 4X, 7CD, 12

### Nonmetallic Mounting Box with Aluminum Epoxy Coated Receptacle

Catalog Number	Hub Size (Inches) †	Wire/Pole	Volts	Catalog Number †	
	Dead-End	1/2 or 3/4	2W, 3P	125 	<b>N1D75-2023</b>
		1/2 or 3/4	2W, 3P	250 	<b>N1D75-20232</b>
	Feed-Thru	1/2 or 3/4	2W, 3P	125 	<b>N1DC75-2023</b>
		1/2 or 3/4	2W, 3P	250 	<b>N1DC75-20232</b>

### Dimensions



Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

† Sealing fittings must be field installed adjacent to enclosure on all conduit runs.  
 ‡ Furnished with a 3/4" to 1/2" reducer for each hub.

# 20 Amp Plugs

## For U-Line® Intraground® N1 Series 20 Amp Receptacles. Explosionproof, Dust-Ignitionproof

These watertight plugs also fit NEMA 5-20R or 6-20R receptacles in nonclassified areas. Choice of Aluminum or Thermoplastic Polyester Plug.

Class I, Division 1 and 2 Groups B, C, D

Class II, Division 1 and 2 Groups F, G

Class III

NEMA 3, 3R, 7BCD, 9FG

### Applications

- U-Line® Interchanger™ ECP plug: suitable for use in such areas as refineries, petrochemical plants, and other areas subject to where ignitable gases are present.
- NCP Plug: ideal where moisture or corrosion is a constant problem, such as production facilities on marine platforms, and pipeline transportation facilities.

### Features

- Unique blade-type, brass contacts exert constant pressure along entire contact surface and provide superior electrical contact.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- Longer plug housing for better gripping and easier plug insertion and withdrawal.









- Plugs fits any standard non-explosionproof receptacle (NEMA 5-20R, or 6-20R) as well as U-Line explosionproof receptacles.
- ECP plug: a twist of the plug produces audible “click” to indicate fast make and break of built-in switch contacts. Twisting plug locks it in place and cannot be accidentally pulled out.
- NCP plug: special neoprene watertight plug bushing accommodates flexible cord ranging from .538” to .639” diameter.

### Standard Materials

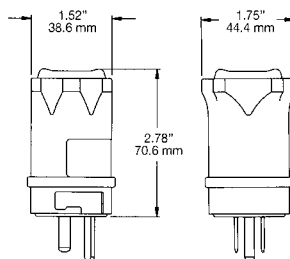
- ECP plug: copperfree (less than 4/10ths of 1%) aluminum
- NCP plug: 30% glass-reinforced thermoplastic polyester

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

	Amp	Diagram	Wire/ Pole	Cable Dia., (Inches)	Catalog Number	
					125 Vac, 1 HP 	250 Vac, 2 HP 
<b>U-Line® Interchanger™ ECP Standard Plug</b>						
	20		2W, 3P	.538 to .639	<b>ECP-2023</b>	—
	20		2W, 3P	.538 to .639	—	<b>ECP-20232</b>
<b>NCP Plug</b>						
	20		2W, 3P	.538 to .639	<b>NCP-2023</b>	—
	20		2W, 3P	.538 to .639	—	<b>NCP-20232</b>

### Dimensions



# U-Line® Factory Sealed 20 Amp Panel Mounting Plugs and Receptacles

## Explosionproof, Dust-Ignitionproof, Watertight

125 Vac, 20 Amp, 1 HP; 250 Vac, 20 Amp, 2HP. Dead-Front Safety Construction.

Class I, Division 1 and 2, Groups B, C, D  
 Class II, Division, 1 and 2, Groups F<sup>†</sup>, G  
 Class III  
 NEMA † 3, 3R, 3RX\*, 4X<sup>†</sup>, 7BCD, 9F<sup>†</sup>G, 12

### Applications

- Class I, Division 1 applications require a minimum of five full threads of engagement (seven for Group B).
  - ECHT is designed to be used where unit is threaded into 1-1/2" NPT (tapered) threads, such as in panelboards.
  - ECH is designed to be used where the unit is threaded into 2" NPSM (straight) threads.
- In Class I, Division 2 applications no thread engagement is required unless non-factory sealed devices are also installed in the enclosure.
  - ECHT and ECH are suitable for use with approved enclosures having threaded or non-threaded openings for these receptacles.
  - Where threaded enclosures are used, they must have 1-1/2" NPT or NPSM threads to fit the ECHT and 2" NPSM (straight) threads to fit the ECH.



### Features

- Furnished with steel locknut and neoprene sealing gasket assembly.
- Gasketed construction protects receptacle against moisture and dirt with plug in or out.
- Interior switch cylinder has neoprene O-ring at each end to seal out dust and moisture.
- Style 2 (shell and extra pole) grounding.

### Standard Materials

- Copperfree (less than 4/10ths of 1%) aluminum

### Standard Finishes

- Epoxy clad-two-coat baked finish

### Certifications and Compliances

- UL Standard: UL 1010 (UL 1203)
- UL Listed: E10784
- CSA Standard: C22.2 No. 25, C22.2 No. 30, C22.2 No. 159
- CSA Certified: 038644

### Recommended Enclosure Types



Typical Class I, Division 1 Application



Typical Class I, Division 2 Application

Hazardous (Classified) Location	Suitable Enclosure Type
Class I, Division 1	NEMA 7BCD with 1-1/2" (1-1/2"–11-1/2" NPT) or 2" (2–11 1/2" NPSM) thread opening. Minimum 7 full threads of engagement required for Group B; minimum 5 threads for Groups C and D.
Class I, Division 2	NEMA 3, 3R, 3S, 12 or any suitable enclosed and gasketed enclosure that prevents the escape of sparks or burning materials.
Class II, Division 1	NEMA 9F †, G with 1-1/2" (1-1/2"–11-1/2" NPT) or 2" (2–11-1/2" NPSM) thread opening. Minimum 3 full threads of engagement required.
Class II, Division 2	NEMA 3, 3S, 12 or any suitable enclosed and gasketed enclosure that minimizes entrance of dust and prevents escape of sparks or burning materials.

‡ Suitable for these types with a suitable NEMA enclosure.

† Do not use where electrically conductive dusts are present (most coal dusts are not electrically conductive).

▼ Meets NEMA 4X when plug is installed or screw cover is fully engaged and mounted in a suitable enclosure.

• NEMA 3X when spring cover is used and mounted in a suitable enclosure.




# U-Line® Factory Sealed 20 Amp Panel Mounting Plugs and Receptacles

Explosionproof, Dust-Ignitionproof, Watertight

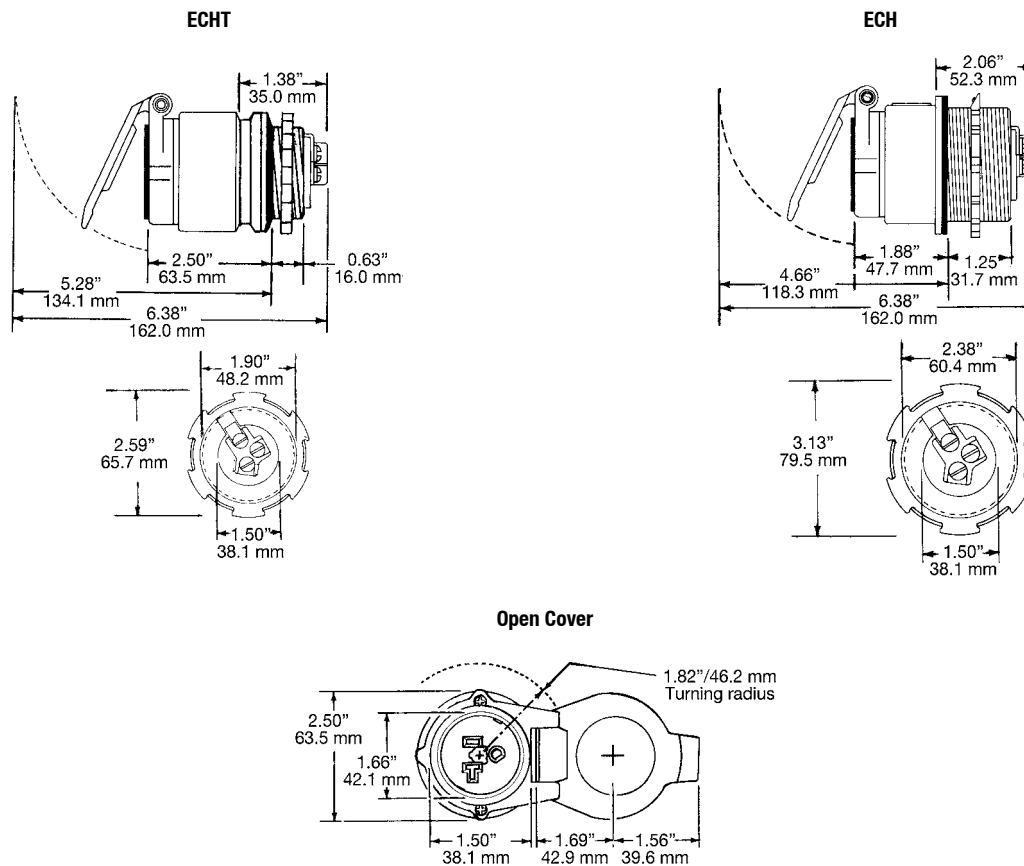
125 Vac, 20 Amp, 1 HP; 250 Vac, 20 Amp, 2HP. Dead-Front Safety Construction.

Class I, Division 1 and 2, Groups B, C, D  
 Class II, Division, 1 and 2, Groups F, G  
 Class III  
 NEMA † 3, 3R, 3RX\*, 4X\*, 7BCD, 9FG, 12

## 20 Amp Aluminum Receptacle

		Catalog Number	
		125 Vac, 1 HP	250 Vac, 2 HP
			
Thread Size and Type †		Wire/Pole	
	1-1/2" (1-1/2–11-1/2 NPT)	2W, 3P	ECHT2023
	2" (2–11-1/2 NPSM)	2W, 3P	ECH2023
Spring and Screw Cap Included with Assembly			

## Dimensions



† ECHT has 1-1/2" tapered threads (1-1/2-11-1/2 NPT); ECH has 2" straight threads (2–11-1/2 NPSM).

‡ Suitable for these types with a suitable NEMA enclosure.

▼ Meets NEMA 4X when plug is installed or screw cover is fully engaged and mounted in a suitable enclosure.

• NEMA 3X when spring cover is used and mounted in a suitable enclosure.

# U-Line® ECCL/ECC Factory Sealed 20 Amp Cable Connectors

## CSA Certification Only

125 Vac, 20 Amp, 1 HP; 250 Vac, 20 Amp, 2HP. Dead-Front Safety Construction .

### CSA Certifications:

Class I, Division 1 and 2 Groups B, C, D

Class II, Division, 1 and 2 Groups F, G

Class III

NEMA 3, 3R, 7BCD, 9FG

### Applications

- Adapter sets for connecting portable devices having ECP U-Line Plugs to existing receptacles in non-hazardous areas. Completed adapter set consists of ECCL (or ECC), short flexible cord and plug to fit existing receptacle.

### Features

- Gasketed spring cover snaps shut to protect against moisture and combustible dust.
- Gasket in receptacle throat “seals” around plug for protection against environment.
- Interior switch cylinder.
- O-ring at each end to seals combustible dust and moisture.
- 2 bushings to accommodate various cable sizes.

### Standard Materials

- Housing: copperfree (4/10ths of 1% max.) aluminum
- O-Ring: neoprene







### Standard Finishes

- Epoxy powder coat

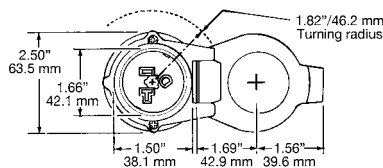
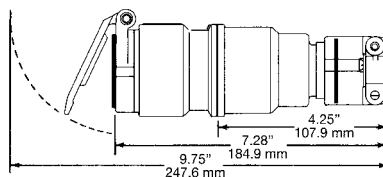
### Certifications and Compliances

- CSA Standard: C22.2 No.25, C22.2 No. 30, C22.2 No. 159
- CSA Certified: 038644

### 20 Amp Cable Connectors

	Wire/Pole	Cable Dia. (Inches)	Amps	Catalog Number	
				125 Vac, 1 HP 	250 Vac, 2 HP 
	2W, 3P	.538 to .639	20	<b>ECCL2023</b>	
	2W, 3P	.538 to .639	20	<b>ECC2023</b>	<b>ECC20232</b>
	NEMA 4X Corrosion Resistance Kit ▼			<b>ULINEREC4XKIT</b>	

### Dimensions



 CSA Certification only.

▼ NEMA Type 4X when screw cover kit is used and screw cover is fully engaged.

# CPS Factory Sealed 20 Amp Pin and Sleeve Receptacles

## Explosionproof

120-240 Vac, 20 Amp at 1 HP; 20 Amp at 24 Vdc. Dead-Front Safety Construction.

Class I, Division 1 and 2 Groups B\*, C, D  
Class II, Division 1 and 2 Groups F, G  
NEMA 3RX\*, 7BCD

**Does not intermate with  
Contender® CPS 20 Amp  
Pin and Sleeve Receptacles**

### Applications

- Locations where receptacles are used with stationary or portable electrically operated devices such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor-generator sets
  - Air conditioners
  - Compressors
  - Pumps
- Locations where damp or corrosive conditions exist.

### Features

- Captive stainless steel hex head slotted screws.
- Plug mechanical cable clamps prevent strain on cables; they meet or exceed UL strain relief pull-out requirements.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- Delayed action construction. Insert plug partially rotate slide on front of receptacle and insert plug fully.
- Factory sealed: external seals not required.
- CPS Series plug and receptacles are supplied with pressure terminal connectors.
- Energizes receptacle terminals deeply recessed to prevent accidental touching.

### Standard Materials

- Cover: copperfree (less than 4/10ths of 1%) aluminum
- Mounting bodies: malleable iron
- Insulating blocks: fiberglass reinforced thermoset polyester
- Cover gasket and plug grommet: neoprene

### Standard Finishes

- Malleable iron mounting bodies: triple-coat (1) zinc electroplate, (2) chromate and (3) epoxy powder coat
- Aluminum covers: epoxy powder coat

### Certifications and Compliances

- UL Standard: UL 1010 (UL 1203)
- UL Listed: E10784, E81751
- CSA Standard: C22.2 No. 25, C22.2 No. 30, C22.2 No. 159
- CSA Certified: 038644

### Related Products

- For a EFSR-GFI Ground Fault Circuit Interrupter refer to the U-Line® 20 Amp Receptacles within the *Plugs and Receptacles: Hazardous Location Section*.



CPS Receptacle  
15° Angle Type



CPS Receptacles  
with EFD Mounting Boxes

• NEMA 3X with Screw Cover Kit installed and cover full engaged.

• Shaded items on following page suitable for Class I, Group B in addition to Class I, Groups C and D.








# CPS 20 Factory Sealed Amp Pin and Sleeve Replacement Receptacles and CPP Plugs

## Explosionproof

120-240 Vac, 20 Amp at 1 HP; 20 Amp at 24 Vdc. Dead-Front Safety Construction.

Class I, Division 1 and 2 Groups B<sup>+</sup>, C, D  
Class II, Division 1 and 2 Groups F, G  
NEMA 3RX<sup>\*</sup>, 7BCD

*Does not intermate with  
Contender<sup>®</sup> CPS 20 Amp  
Pin and Sleeve Receptacles*

	Type	Number of Gangs	Wire/Pole	Cable Dia. (Inches)	Catalog Number
<b>CPS Receptacle 15° Angle Type</b>					
	Dead-End	—	2W, 3P	1/2	<b>CPSA-2350</b>
				3/4	<b>CPSA-2375</b>
<b>CPS Receptacles with EFD Mounting Boxes</b>					
	Dead-End	Single	2W, 3P	1/2	<b>CPE1-2350</b>
				3/4	<b>CPE1-2375</b>
				1	<b>CPE1-23100</b>
	Feed-Thru	Single	2W, 3P	1/2	<b>CPC1-2350</b>
				3/4	<b>CPC1-2375</b>
				1	<b>CPC1-23100</b>
	Dead-End	Two	2W, 3P	1/2	<b>CPE2-2350</b>
				3/4	<b>CPE2-2375</b>
				1	<b>CPE2-23100</b>
	Feed-Thru	Two	2W, 3P	1/2	<b>CPC2-2350</b>
				1	<b>CPC2-23100</b>
				3/4	<b>CPC2-2375</b>
<b>CPS Replacement Receptacle and Cover Assembly</b>					
	CPSR		2W, 3P		<b>CPSR-23</b>
	Replacement Spring Cover				<b>CPSCA</b>
<b>CPR Replacement Receptacle Cover Assembly Only</b>					
	CPR		2W, 3P		<b>CPR-23</b>
	Spring Cover Kit				<b>CPRCA</b>
	NEMA 3X Corrosion Resistance Kit •				<b>CPS233RXKIT</b>
<b>CPP Plugs for use with CPS Receptacles</b>					
	Pressure Terminals				
	Plug amperes match receptacle ratings		2W, 3P	.536 to .639	<b>CPP-2023</b>

• NEMA 3X with Screw Cover Kit installed and cover full engaged.

† Suitable for Class 1, Group C, D, Class I Div 2 Group B, C, D, Class II, Groups F, G




◆ Shaded area indicates items suitable for Class I, Group B in addition to Class I, Groups C and D.

# EFD Cast Device Mounting Boxes

## For CPS 20 Amp Receptacles

Single, Two, and Tandem Boxes.

*Does not intermate with  
Contender® CPS 20 Amp  
Pin and Sleeve Receptacles*

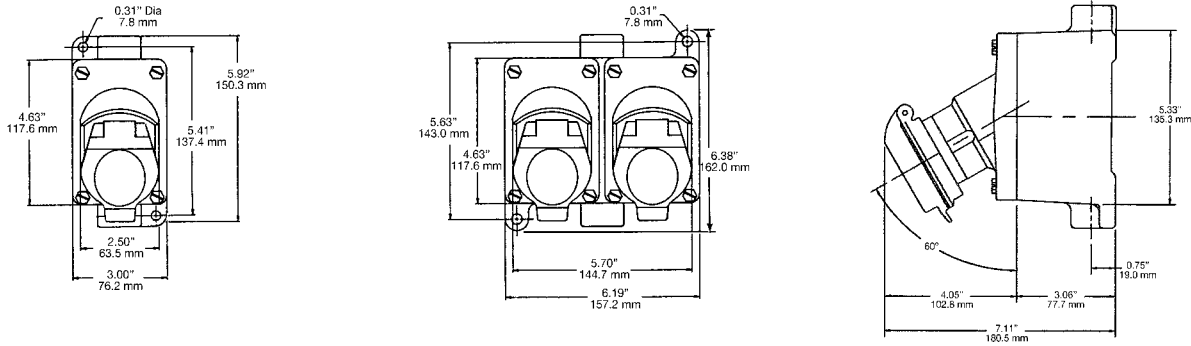
	Type	Hub Size (Inches)	Catalog Number	
			Malleable Iron	Aluminum
<b>Single Gang</b>				
	Dead-End	1/2	EFD150-NL-Q	EFD150A-NL-Q
		3/4	EFD175-NL-Q	EFD175A-NL-Q
		1	EFD110-NL-Q	EFD110A-NL-Q
	Feed-Thru	1/2	EFDC150-NL-Q	EFDC150A-NL-Q
		3/4	EFDC175-NL-Q	EFDC175A-NL-Q
		1	EFDC110-NL-Q	EFDC110A-NL-Q
<b>Two Gang</b>				
	Dead-End	1/2	EFD250-NL-Q	EFD250A-NL-Q
		3/4	EFD275-NL-Q	EFD275A-NL-Q
		1	EFD210-NL-Q	EFD210A-NL-Q
	Feed-Thru	1/2	EFDC250-NL-Q	EFDC250A-NL-Q
		3/4	EFDC275-NL-Q	EFDC275A-NL-Q
		1	EFDC210-NL-Q	EFDC210A-NL-Q
<b>Tandem †</b>				
	Dead-End	1/2	EFDT50-NL-Q	
		3/4	EFDT75-NL-Q	
		1	EFDT10-NL-Q	
	Feed-Thru	1/2	EFDCT50-NL-Q	
		3/4	EFDCT75-NL-Q	
		1	EFDCT10-NL-Q	

† For tandem bodies, eternal seals must be installed within 5 feet/1.52 meters of each conduit entrance or Class I, Group C and D.

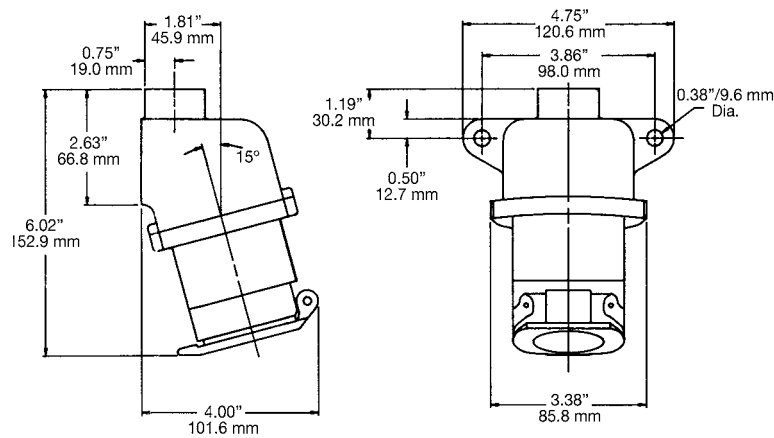


# CPS 20 Amp Factory Sealed Receptacles and CPP Plugs Dimensions

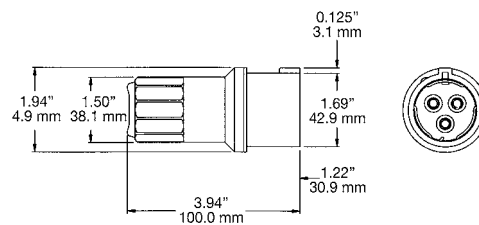
## CPSA 45° Angle Type Receptacle



## CPSA 15° Angle Type Receptacle



## CPP Plug



# Contender® CPS Factory Sealed 20 Amp Pin and Sleeve Receptacles

## Explosionproof, Delayed Action

Class I, Division 1 and 2, Groups C, D

**Does not intermate with  
CPS 20 Amp Factory Sealed Pin  
and Sleeve Receptacles**

### Applications

- Locations where receptacles are used with stationary or portable electrically operated devices such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor-generator sets
  - Air conditioners
  - Compressors
  - Pumps
- Locations where damp or corrosive conditions exist.
- Meets all UL and CSA requirements for ground fault protection in hazardous locations when GFCI cover is used.

### Features

- Covers are UL Listed when used with Contender® Series mounting bodies.
- Plug mechanical cable clamps prevent strain on cables – they meet or exceed UL strain relief pull-out requirements.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- Delayed action construction: insert plug partially rotate slide on front of receptacle and insert plug fully.
- Factory sealed: external seals not required.
- Plug and receptacles are supplied with pressure terminal connectors.

### Standard Materials

- Cover: copperfree (4/10 of 1% max.) aluminum
- Mounting bodies: malleable iron
- Screws: captive hex head slotted, stainless steel
- Insulating blocks: fiberglass reinforced thermoset polyester
- Plug grommet: neoprene

### Standard Finishes

- Malleable iron mounting bodies: triple-coat– (1) zinc electroplate, (2) chromate and (3) epoxy powder coat
- Covers and aluminum mounting bodies: epoxy powder coat

### Options

- Copperfree (4/10 of 1% max.) aluminum receptacle cover and box. Add suffix **-SA**.
- U-Line Corrosion Resistance kit. Order **ULINE3RXKIT**.

### Certifications and Compliances

- UL Standard: UL 1010 (UL 1203), UL 894
- UL Listed: E10784



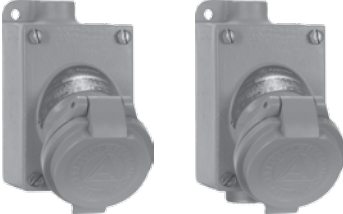
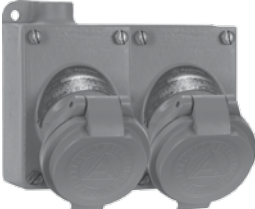

Covers are UL Classified to mount on Crouse-Hinds EDS mounting bodies. Crouse-Hinds and ENP are registered trademarks of Cooper Crouse-Hinds.

# Contender® CPS Factory Sealed 20 Amp Pin and Sleeve Receptacles

## Explosionproof, Delayed Action

Class I, Division 1 and 2, Groups C, D

**Does not intermate with  
CPS 20 Amp Factory Sealed Pin  
and Sleeve Receptacles**

		Type	Wire/Pole	Hub Size (Inches)	Catalog Numbers † 20 Amp 125–250 Vac 1HP, 20 Amp @ 18 Vdc
<b>Single Gang</b>					
 <p><b>Dead-End</b>      <b>Feed-Thru</b></p>	Dead-End	2W, 3P	1/2	CPS152-101	
			3/4	CPS152-201	
			1	CPS152-301	
	Feed-Thru	2W, 3P	1/2	CPS152-111	
			3/4	CPS152-211	
			1	CPS152-311	
<b>Two Gang</b>					
	Dead-End	2W, 3P	1/2	CPS152-102	
			3/4	CPS152-202	
			1	CPS152-302	
	Feed-Thru	2W, 3P	1/2	CPS152-112	
			3/4	CPS152-212	
			1	CPS152-312	
<b>Receptacle with GFI ‡</b>					
	Dead-End	2W, 3P	1/2	CPS152-102GFI	
			3/4	CPS152-202GFI	
			1	CPS152-302GFI	
	Feed-Thru	2W, 3P	1/2	CPS152-112GFI	
			3/4	CPS152-212GFI	
			1	CPS152-312GFI	

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

† Aluminum receptacle cover and malleable iron EDS box. For aluminum box and receptacle cover, add suffix **-SA**.

‡ GFI units rated 20 Amp, 125 Vac.

Appleton Contender CPS Receptacles UL Classified for use with Crouse-Hinds CPS plugs. Appleton covers are UL Classified to mount on Crouse-Hinds EDS mounting bodies. Crouse-Hinds and ENP are registered trademarks of Cooper Crouse-Hinds.

# Contender® CPS Factory Sealed 20 Amp Pin and Sleeve Receptacles

## Explosionproof, Delayed Action

Class I, Division 1 and 2, Groups C, D

**Does not intermate with  
CPS 20 Amp Factory Sealed Pin  
and Sleeve Receptacles**

		Type	Wire/Pole	Catalog Numbers † 20 Amp 125–250 Vac 1HP, 20 Amp @ 18 Vdc
<b>Cover Assemblies</b>				
		Receptacle Only		CPS152R
		GFCI Cover, 5 mA Trip Setting ‡		GFS1
		Spring Cover Replacement Kit (Aluminum)		CPSCA
		NEMA 3RX Corrosion Resistance Kit		ULINE3RXKIT
		NEMA 4X Corrosion Resistance Kit		ULINEREC4XKIT
<b>Plug</b>				
		Pressure Terminals	2W, 3P	CPP516
		Plug amperes match receptacle ratings		




† Aluminum receptacle cover and malleable iron EDS box. For aluminum box and receptacle cover, add suffix **-SA**.

‡ GFI units rated 20 Amp, 125 Vac.

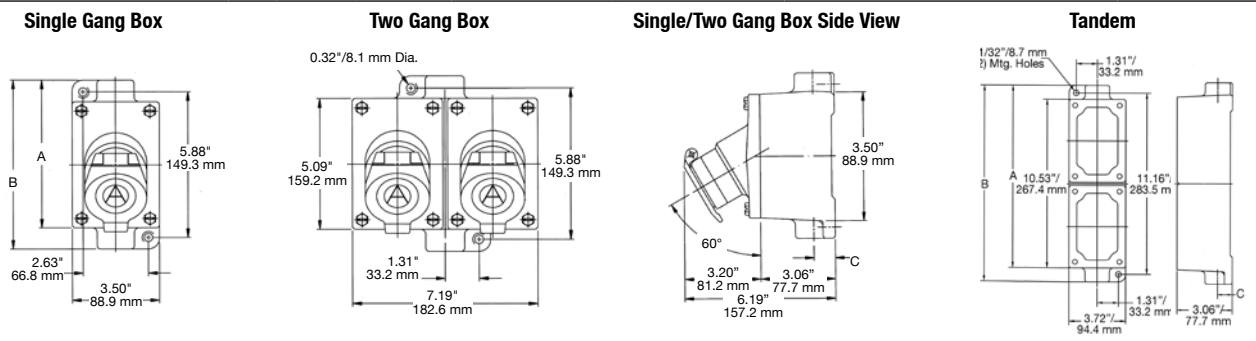
Appleton CPP516 plug is UL Classified for use on Crouse-Hinds CPS receptacles. Appleton covers are UL Classified to mount on Crouse-Hinds EDS mounting bodies. Crouse-Hinds and ENP are registered trademarks of Cooper Crouse-Hinds.

# EDS Cast Device Mounting Boxes and Dimensions

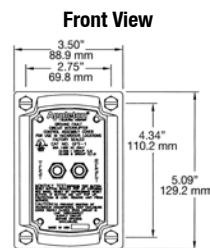
## For Contender® CPS 20 Amp Factory Sealed Receptacles and CPP Plugs

	Type	Hub Size (Inches)	Dimensions in Inches/Millimeters			Catalog Number	
			A	B	C	Malleable Iron	Aluminum
	Dead-End	1/2	6.06/153.9	6.81/172.9	0.75/19.0	<b>EDS171</b>	<b>EDS171-SA</b>
		3/4	6.06/153.9	6.81/172.9	0.88/22.3	<b>EDS271</b>	<b>EDS271-SA</b>
		1	6.17/156.7	7.03/178.5	1.00/25.4	<b>EDS371</b>	<b>EDS371-SA</b>
	Feed-Thru	1/2	6.06/153.9	6.81/172.9	0.75/19.0	<b>EDSC171</b>	<b>EDSC171-SA</b>
		3/4	6.06/153.9	6.81/172.9	0.88/22.3	<b>EDSC271</b>	<b>EDSC271-SA</b>
		1	6.17/156.7	7.03/178.5	1.00/25.4	<b>EDSC371</b>	<b>EDSC371-SA</b>
	Dead-End	1/2	6.06/153.9	6.81/172.9	0.88/22.3	<b>EDS172</b>	<b>EDS172-SA</b>
		3/4	6.06/153.9	6.81/172.9	0.88/22.3	<b>EDS272</b>	<b>EDS272-SA</b>
		1	6.17/156.7	7.03/178.5	1.00/25.4	<b>EDS372</b>	<b>EDS372-SA</b>
	Feed-Thru	1/2	6.06/153.9	6.81/172.9	0.88/22.3	<b>EDSC172</b>	<b>EDSC172-SA</b>
		3/4	6.06/153.9	6.81/172.9	0.88/22.3	<b>EDSC272</b>	<b>EDSC272-SA</b>
		1	6.17/156.7	7.03/178.5	1.00/25.4	<b>EDSC372</b>	<b>EDSC372-SA</b>
	Dead-End	1/2	11.31/287.2	12.09/307.0	0.88/22.3	<b>EDS147</b>	<b>EDS147-SA</b>
		3/4	11.31/287.2	12.09/307.0	0.88/22.3	<b>EDS247</b>	<b>EDS247-SA</b>
		1	11.44/290.5	12.31/312.6	1.00/25.4	<b>EDS347</b>	<b>EDS347-SA</b>
	Feed-Thru	1/2	11.31/287.2	12.09/307.0	0.88/22.3	<b>EDSC147</b>	<b>EDSC147-SA</b>
		3/4	11.31/287.2	12.09/307.0	0.88/22.3	<b>EDSC247</b>	<b>EDSC247-SA</b>
		1	11.44/290.5	12.31/312.6	1.00/25.4	<b>EDSC347</b>	<b>EDSC347-SA</b>

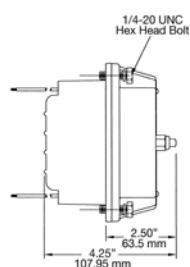
### Dimensions



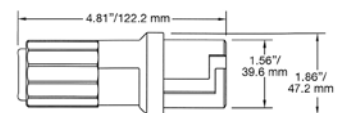
### GFS-1



### Side View



### CPP Plug



† For tandem bodies, external seals must be installed within 5 feet/1.52 meters of each conduit entrance for Class I, Groups C and D.

# FSQX 30 Amp Receptacles with Interlocked Switch and Cover

## Explosionproof, Dust-Ignitionproof

Raintight Screw Cap Receptacle Cover—Interlocked Switch and Cover Safety Construction.

Class I, Division 1 and 2, Groups B, C, D  
Class II, Division 1 and 2, Groups F, G  
Class III  
NEMA 7BCD, 9FG

### Applications

- Locations where receptacles are used with stationary or portable electrically operated devices such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor-generator sets
  - Air conditioners
  - Compressors
  - Pumps
- Locations with damp or corrosive conditions.
- Class I: locations where ignitable vapors or gases are present such as:
  - Petrochemical plants
  - Petroleum refineries
  - Paint and chemical plants
- Class II: locations such as process industries where there are dust hazards from handling such products as flour, grain and starch or any location where ignitable amounts of dust are present or amounts which would adversely affect performance.

### Features

- Energized receptacle contacts deeply recessed to reduce danger of accidental touching.
- Screw cap fastened to chain.
- Unique design brass contacts exert constant pressure along entire contact surface and provide superior electrical contact.
- Plug mechanical cable clamps prevent strain on cables — they meet or exceed UL strain relief pull-out requirements.
- Neoprene bushing compressed by cable collar prevents entrance of water.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- Smooth, rounded integral bushing in each hub protects conductor insulation.
- “Interlocked Switch and Cover” offers double protection—plug cannot be inserted or removed unless switch is in OFF position. Interlock device in the cover breaks circuit when locking screw is backed down for cover removal. To operate, insert plug and turn switch to ON position.

### Standard Materials

- Body: malleable iron
- Screw covers: copperfree (4/10 of 1% max.) aluminum
- Insulating blocks: phenolic

### Standard Finishes

- Malleable iron receptacles: triple-coat-(1) zinc electroplate, (2) chromate and (3) epoxy powder coat
- Cord connector housings and caps: epoxy powder coat

### Certifications and Compliances

- UL Standard: UL 1010 (UL1203), UL 894
- UL Listed: E10784



# FSQX 30 Amp Receptacles with Interlocked Switch and Cover

## Explosionproof, Dust-Ignitionproof

Raintight Screw Cap Receptacle Cover—Interlocked Switch and Cover Safety Construction.

Class I, Division 1 and 2 Groups B, C, D  
 Class II, Division 1 and 2 Groups F, G  
 Class III  
 NEMA 7BCD, 9FG

Type	Wire/Pole	Hub Size (Inches)	Catalog Number
------	-----------	-------------------	----------------

### FSQX Receptacles

Furnished with four hubs and three close-up plugs. Supplied with 1" to 3/4" reducers.



2-Pole Switch rated at 30 Amp 2 HP, 120 Vac 5 HP, 240 Vac 10 HP, 480 Vac 15 HP, 600 Vac	2W, 3P	1	<b>FSQX3023-100</b>
3-Pole Switch rated at 30 Amp 3 HP, 120 Vac 7.5 HP, 240 Vac 15 HP, 480 Vac 20 HP, 600 Vac	3W, 4P	1	<b>FSQX3034-100</b>

Type	Wire/Pole	Cable Dia., Inches Min. — Max.	Catalog Number
------	-----------	--------------------------------	----------------

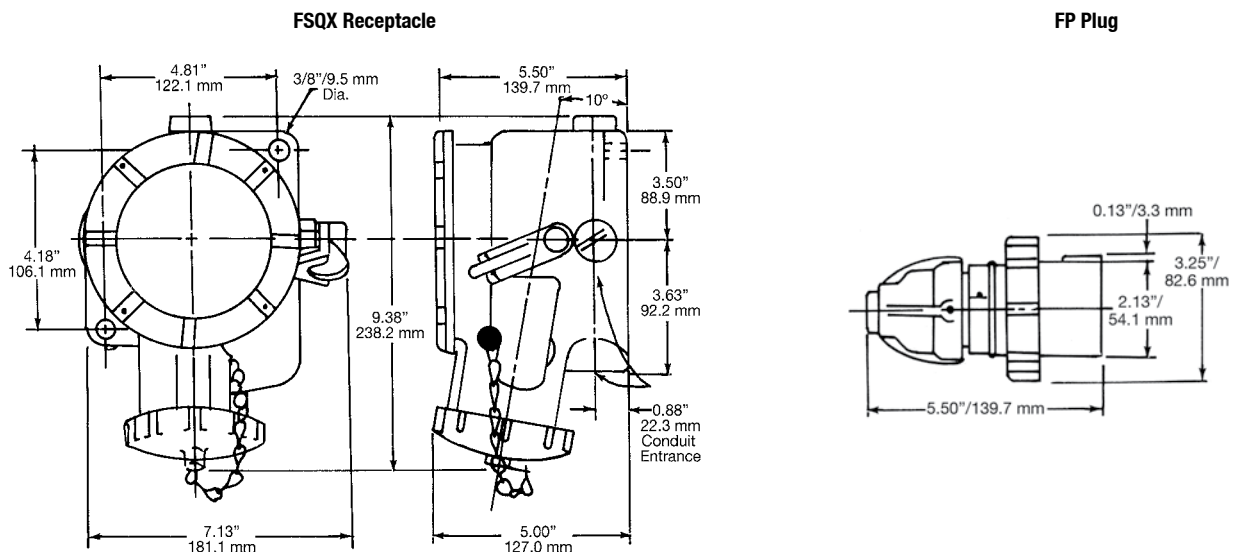
### FP Plugs for Use with Receptacles Above

Furnished with cable grip and rubber bushing. Solder well wire terminals. Pressure terminal for grounding.



Plug amperes match receptacle ratings	2W, 3P	.75 to .875	<b>FP-3023</b>
	3W, 4P	.75 to .875	<b>FP-3034</b>

### Dimensions



# CES and CESD Factory Sealed 30 and 60 Amp Pin and Sleeve Receptacles

## Explosionproof

Delayed-Action Safety Construction with Slide-Lok® Design. Pressure Wire Terminals.

**CES**  
Class I, Division 1 and 2, Groups C, D

**CESD**  
Class I, Division 1 and 2, Groups D

### Applications

- Locations where receptacles are used with stationary or portable electrically operated devices such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor-generator sets
  - Air conditioners
  - Compressors
  - Pumps
- Class I: classified locations such as:
  - Petrochemical plants
  - Petroleum refineries
  - Paint and chemical plants
  - Any location where ignitable vapors or gases are present

### Features

- Factory sealed. No external seals required. Arcing is safely confined to receptacle interior.
- Energized receptacle contacts deeply recessed to reduce danger of accidental touching.
- Style 2 (shell and extra pole) grounding.
- Spring door keeps dust out of receptacle when plug is not in use.
- Unique design brass contacts exert constant pressure along entire contact surface and provide superior electrical contact.
- Contacts have beryllium copper wire springs.
- Plug mechanical cable clamps prevent strain on cables; they meet or exceed UL strain relief pull-out requirements.
- Neoprene bushing compressed by cable collar prevents entrance of water.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- Smooth, rounded integral bushing in each hub protects conductor insulation.
- Delayed action construction. To operate, insert plug to first stop, move Slide-Lok® slide to right and push plug fully forward.
- CPH plug fits Powertite® Series hazardous location receptacles.

### Standard Materials

- Receptacle and cover: copperfree (4/10 of 1% max.) aluminum
- Mounting box: malleable iron
- Insulating blocks: fiber glass reinforced polyester

### Standard Finishes

- Malleable iron mounting bodies: triple-coat (1) zinc electroplate, (2) chromate and (3) epoxy powder coat
- Aluminum receptacles: ceramic burnished
- Cord connector housings and caps: epoxy powder coat

### Certifications and Compliances

- UL Standard: UL 1010 (UL 1203), UL 894, UL 1682, UL 1686
- UL Listed: E10784
- CSA Standard: C22. No 30, C22.2 No. 159, C22.2 No 182.1





# CES and CESD Factory Sealed 30 and 60 Amp Pin and Sleeve Receptacles

## Explosionproof

Delayed-Action Safety Construction with Slide-Lok® Design. Pressure Wire Terminals.

**CES**  
Class I, Division 1 and 2, Groups C, D

**CESD**  
Class I, Division 1 and 2, Groups D

Amp	Wire/Pole	Hub Size (Inches)	Complete With Box	Catalog Number		
				Back Box Only	Receptacle Only	Replacement Interior

### CES Receptacles — 30 Amp and 60 Amp, 125-250 Vac (See HP ratings below.)

Furnished with one vertical and two horizontal feed-thru hubs.



CES



CESR

30	2W, 3P	3/4	CES-3023	CES30B	CESR-3023	CERI-3023
	3W, 4P	3/4	CES-3034	CES30B	CESR-3034	CERI-3034
60	2W, 3P	1-1/4	CES-6023	CES60B	CESR-6023	CERI-6023
	3W, 4P	1-1/4	CES-6034	CES60B	CESR-6034	CERI-6034

### CESD Receptacles — 30 Amp and 60 Amp, 125-250 Vac (See HP ratings below.)

Furnished with vertical feed-thru hubs.



CESD



CESR

30	2W, 3P	3/4	CESD-3023	CESD30B	CESR-3023	CERI-3023
	3W, 4P	3/4	CESD-3034	CESD30B	CESR-3034	CERI-3034
60	2W, 3P	1-1/4	CESD-6023	CESD60B	CESR-6023	CERI-6023
	3W, 4P	1-1/4	CESD-6034	CESD60B	CESR-6034	CERI-6034

### CPH Plugs and Plug Interiors for Use with Receptacles Above

Type	Wire/Pole	Cable Dia. (Inches)	Complete Plug	Replacement Interior
30	2W, 3P	.390-1.375	CPH-3023BC	CEPI-3023B
	3W, 4P	.390-1.375	CPH-3034BC	CEPI-3034B
60	2W, 3P	.390-1.375	CPH-6023BC	CEPI-6023BC
	3W, 4P	.390-1.375	CPH-6034BC	CEPI-6034BC

### CES/CESD Maximum Horsepower Ratings

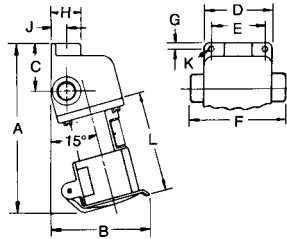
125-250 Vac					480 Vac				
Wire/Pole	Phase	Max. HP	Max. Amp	Catalog Number	Wire/Pole	Phase	Max. HP	Max. Amp	Catalog Number
2W, 3P	1	1-1/2	30	CES/CESD-3023	2W, 3P	1	1/2	7	CES/CESD-3023
3W, 4P	3	3	30	CES/CESD-3034	3W, 4P	3	1	7	CES/CESD-3034
2W, 3P	1	1-1/2	60	CES/CESD-6023	2W, 3P	1	1-1/2	30	CES/CESD-6023
3W, 4P	3	5	60	CES/CESD-6034	3W, 4P	3	5	30	CES/CESD-6034

# CES and CESD Factory Sealed 30 and 60 Amp Pin and Sleeve Receptacle Dimensions

## Factory Sealed, Explosionproof

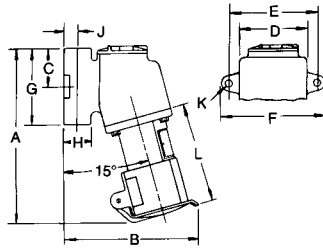
Delayed-Action Safety Construction with Slide-Lok® Design. Pressure Wire Terminals.

### CES Receptacles



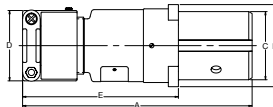
Hub Size (Inches)	Max. Amp	Dimensions in Inches/Millimeters										
		A	B	C	D	E	F	G	H	J	K	L
3/4	30	8.31/211.0	4.94/125.4	2.38/60.4	3.38/85.8	2.63/66.8	4.69/119.1	0.31/7.8	1.50/38.1	0.78/19.8	1/4 $\phi$	5.07/128.7
1-1/4	60	11.88/301.7	6.88/174.7	2.88/73.1	5.25/133.3	4.38/111.2	7.31/185.6	0.44/11.1	2.56/65.0	1.38/35.0	13/32 $\phi$	7.10/180.3

### CESD Receptacles



Hub Size (Inches)	Max. Amp	Dimensions in Inches/Millimeters										
		A	B	C	D	E	F	G	H	J	K	L
3/4	30	8.69/220.7	6.75/171.4	1.88/47.7	3.38/85.8	4.38/111.2	5.13/130.3	3.75/95.2	1.38/35.0	0.69/17.5	11/32 $\phi$	5.07/128.7
1-1/4	60	12.75/323.8	9.31/236.4	3.19/81.0	5.25/133.3	6.25/158.7	7.25/184.1	6.31/160.2	2.56/65.0	1.38/35.0	13/32 $\phi$	7.10/180.3

### CPH Plugs



Max. Amp	Wire/Pole	Dimensions in Inches/Millimeters				
		A	B	C	D	E
30	2W, 3P; 3W, 4P	6.13/155.7	2.38/60.4	1.86/47.2	2.63/6.68	4.44/113.7
60	2W, 3P	8.44/123.9	3.06/77.7	2.23/56.6	2.63/6.68	5.69/144.5
60	3W, 4P	8.44/123.9	3.06/77.7	2.55/64.7	2.63/6.68	5.69/144.5

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

# FSQC 30, 60 and 100 Amp Series Receptacles and ACP Plugs

## Disconnect Switch. Explosionproof, Dust-Ignitionproof

600 Vac Ma. 250 Vdc Max.

Class I, Division 1 and 2, Groups B, C, D

Class II, Division 1 and 2, Groups F, G

Class III

NEMA 3\*, 3R\*, 4\*, 4X\*, 7CD, 9FG

### Applications

- Locations where receptacles are used with stationary or portable electrically operated devices such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor-generator sets
  - Air conditioners
  - Compressors
  - Pumps
- Locations where damp or corrosive conditions exist
- Class I: classified locations such as:
  - Petrochemical plants
  - Petroleum refineries
  - Paint and chemical plants
  - Any location where ignitable vapors or gases are present
- Class II: classified locations such as:
  - Process industries where there are dust hazards from handling such products as flour, grain and starch or any location where ignitable amounts of dust are present or amounts which would adversely affect performance

### Features

- Large housing provides ample wiring room.
- Style 2 (shell and extra pole) grounding.
- Spring door keeps dust out of receptacle when plug is not in use. Screw cover also supplied.
- Brass contacts exert constant pressure along entire contact surface and provide superior electrical contact.
- Contacts have beryllium copper wire springs.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- Tapped NPT conduit openings at top and bottom: 30 Amp 3/4", 60 Amp 1-1/2", 100 Amp 2".
- "Interlocked Disconnect Switch" provides safe connect and disconnect operation at 30, 60 or 100 Amp, 600 Vac maximum, three pole, non-fused motor circuit switch. FSQC permits safe operation in Class I, Group B as well as Class I, Groups C and D, Class II, Groups F, G, and Class III.
- To operate, insert plug and turn receptacle face to ON position. To remove plug, turn to OFF position and pull plug out.
- ACP plug fits Powertite® Series hazardous location FSQC receptacles.

### Standard Materials

- Receptacle and mounting box: copperfree (4/10 of 1% max.) aluminum
- ACP plugs: copperfree (4/10 of 1% max.) aluminum housings
- Insulating blocks: fiber glass reinforced polyester

### Standard Finishes

- Receptacles, mounting boxes, cord connector housings and caps: epoxy powder coat

### Options

- Special Polarization: Prevents plug insertion in a receptacle or connector wired for a different voltage. In installations where there are different line voltages, the special polarization option is desirable. This allows only plugs and receptacles wired for

• Flip cover suitable for NEMA 3, 3R only.

▼ NEMA 4 rating maintained with Appleton NEMA 4 plug installed. Select screw cover for 4, 4X. Both covers are included with product.

Classified by UL and Certified by CSA for use in specific combinations with Crouse-Hinds Arktite. Arktite is a registered trademark of Cooper Crouse-Hinds.



30 Amp  
Shown with Flip Lid Cover



60 Amp  
Shown with Screw Cap Cover



100 Amp  
Shown with Flip Lid Cover

the same line voltage to be mated together. The receptacle or connector interior is positioned 22-1/2°, relative to the polarization rivet, to the right (as specified) of standard, and plug is polarized to correspond. This option can be added to receptacles using the Powertite® Plug. Add suffix **-P4** to receptacle or plug.

- Auxiliary contacts 1NO + 1NC. Add suffix **-AUX** to receptacle.

### Compliances

- UL Standard: UL 1010 (UL 1203), UL 894, UL 1682, UL 1686
- CSA Standard: C22.2 No. 25, C22.2 No. 30, C22.2 No. 159

# FSQC 30, 60 and 100 Amp Series Receptacles and ACP Plugs

Disconnect Switch. Explosionproof, Dust-Ignitionproof


600 Vac Ma. 250 Vdc Max.

Class I, Division 1 and 2, Groups B, C, D


Class II, Division 1 and 2, Groups F, G

Class III

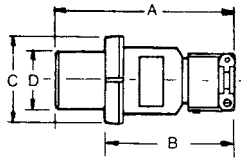
NEMA 3\*, 3R\*, 4\*, 4X\*, 7CD, 9FG

	Amp	Hub Size (Inches) †	Wire/Poles	Terminal Block Wire Range	Receptacle Catalog Number	Mating Plug Powertite®
	30	3/4 or 1	3W, 4P	#10 - #8	<b>FSQC3430</b>	ACP3034BC
	60	1-1/2	3W, 4P	#6 - #4	<b>FSQC5640</b>	ACP6034BC
	100	2	3W, 4P	#2 - 1/0	<b>FSQC61040</b>	ACP1034CD

## ACP Plugs

	Wire/Poles	Cable Dia. (Inches)	30 Amp	60 Amp	100 Amp
	3W, 4P	.390 to 1.375	<b>ACP3034BC</b>	<b>ACP6034BC</b>	—
		.875 to 1.906	—	—	<b>ACP1034CD</b>

## ACP Plug Dimensions



Max. Amp	Dimensions in Inches/Millimeters			
	A	B	C	D
30	6.00/152.4	4.75/120.6	3.13/79.5	1.86/47.2
60	7.81/198.3	4.94/125.4	3.50/88.9	2.23/56.6
100	10.50/267.7	6.63/168.4	4.00/101.6	2.47/62.7

## Maximum Horsepower Ratings of Switch

Phase	Amps	120 Vac	240 Vac	480 Vac	600 Vac
Single	30	2	5	7.5	7.5
	60	—	10	25	30
	100	3	10	20	30
Three	30	3	7.5	15	15
	60	—	10	25	30
	100	7.5	20	40	30

• Flip cover suitable for NEMA 3, 3R only.

▼ NEMA 4 rating maintained with Appleton NEMA 4 plug installed. Select screw cover for 4, 4X. Both covers are included with product.

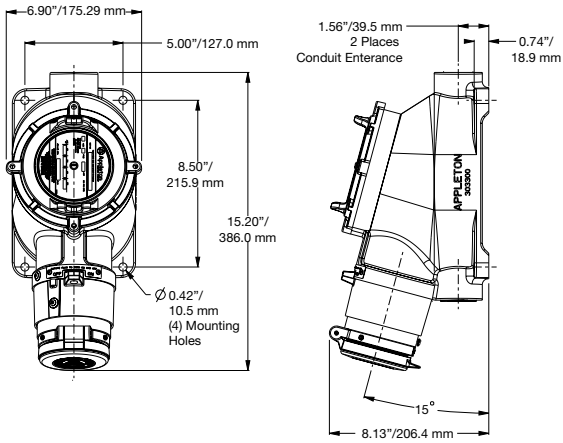
# FSQC 30, 60 and 100 Amp Series Receptacle Dimensions

Disconnect Switch. Explosionproof, Dust-Ignitionproof

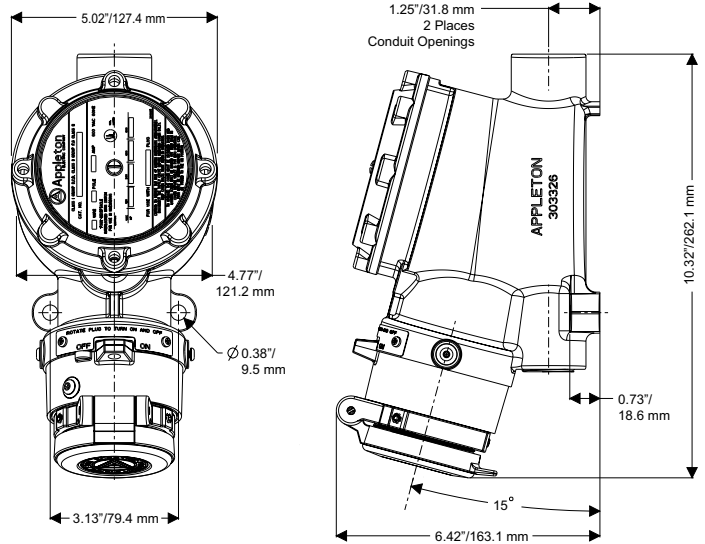
600 Vac Ma. 250 Vdc Max.

## FSQC Receptacles — Shown with Flip Lid Cover

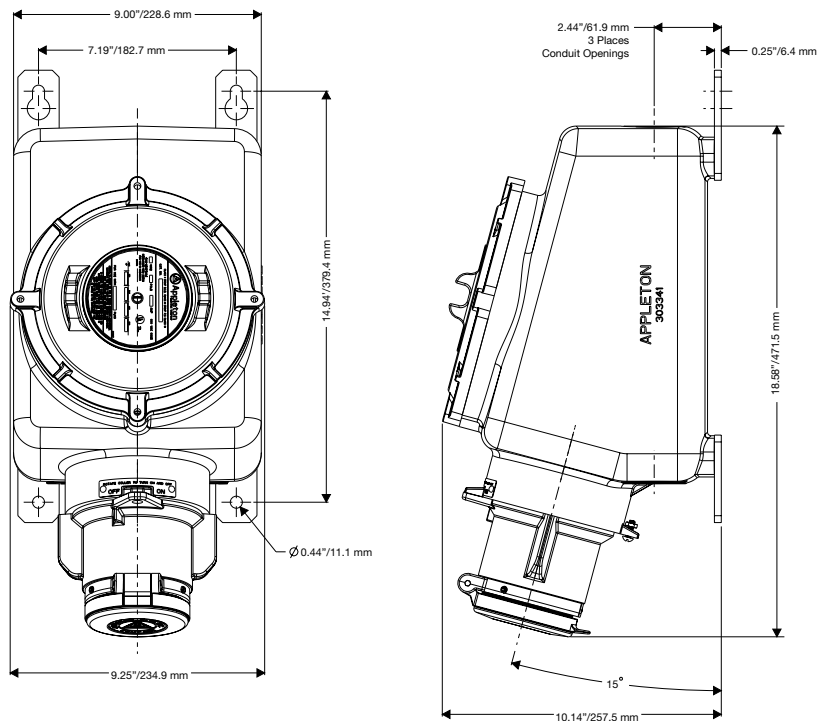
### 30 Amp



### 60 Amp



### 100 Amp



• Flip cover suitable for NEMA 3, 3R only.

▼ NEMA 4 rating maintained with Appleton NEMA 4 plug installed. Select screw cover for 4, 4X. Both covers are included with product.

# JBR Series 30 and 60 Amp Switched Receptacles

Dead Front Interlocked Construction; 600 Volts AC, 50-400 Hertz; Pressure Wire Terminals

Class I, Division 1 and 2, Groups B, C, D  
Class II, Division 1 and 2, Groups F, G  
Class III  
NEMA 3<sup>o</sup>, 3R<sup>o</sup>, 4<sup>Y</sup>, 4X<sup>Y</sup>, 7BCD, 9FG

## Applications

- Locations where receptacles are used with stationary or portable electrically operated devices such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor-generator sets
  - Air conditioners
  - Compressors
  - Pumps

## Features

- Plug must be inserted into receptacle before the switch is in the on position.
- JBR is UL Listed for use with ACP Powertite<sup>®</sup> and CPH plugs.
- Receptacle supplied with flip cover and screw cover.
- Positive polarization: only plugs of the same style, number of poles and amperage rating may be used with these receptacles.
- Terminal block provided in mounting box for ease of wiring. Factory wired between the receptacle and terminal block.
- Style 2 (shell and extra pole) grounding.
- Receptacles may be locked in the OFF position.
- Mounting box provided 1-1/2" vertical feed-thru conduit openings. Reducer bushings provided for 1-1/4" conduit opening. All conduit openings have NPT threads.
- O-ring gasket provided between the mounting box and receptacle cover.
- Internal switch provides safe and quick disconnect means. No need for separate disconnect switch.
- UL Classified for use with competitors like plugs †.

## Standard Materials

- Receptacle housing and mounting box: copperfree (4/10 of 1% max.) aluminum
- Captive cover bolts, mounting feet and hinges: stainless steel

## Standard Finishes

- Receptacle and mounting box: epoxy powder coat

## Options

- For field installed drain and breather set, order one **ECD50B4X** drain and one **BRTB4X** breather. Both are NEMA 4X rated for Group B.
- Special Polarization: Prevents plug insertion in a receptacle or connector wired for a different voltage. In installations where there are different line voltages, the special polarization option is desirable. This allows only plugs and receptacles wired for the same line voltage to be mated together. The receptacle or connector interior is positioned 22-1/2°, relative to the polarization rivet, to the right (as specified) of standard, and plug is polarized to correspond. Suffix **-P4** to receptacle or plug.

## Certifications and Compliances

- UL Standard: UL 1010 (UL 1203), UL 894, UL 1682, UL 1686
- UL Listed: E10784

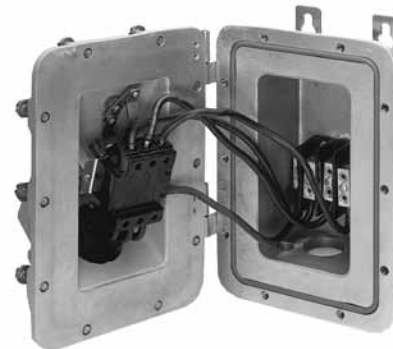
• Flip cover suitable for NEMA 3, 3R only.

▼ NEMA 4 rating maintained with Appleton NEMA 4 plug installed. Select screw cover for 4, 4X. Both covers are included with product.

† UL Classified for use with Crouse-Hinds APJ series plug. Crouse-Hinds is a registered trademark of Cooper Crouse-Hinds.



## Illustrated Features



- **Terminal block** provided for line connections.
- **Terminal** provided for grounding connection.
- **Receptacle** is prewired to the terminal block.
- **Disconnect switch** mounted on the cover assembly.

# JBR Series 30 and 60 Amp Series Switched Receptacles

## Dead Front Interlocked Construction

30 and 60 Amp, 600 Vac, 50-400 Hz

Class I, Division 1 and 2, Groups B, C, D  
 Class II, Division 1 and 2, Groups F, G  
 Class III  
 NEMA 3\*, 3R\*, 4\*, 4X\*, 7BCD, 9FG

Amp	Hub Size (Inches) ‡	Wire/Poles	Terminal Block Wire Range	Receptacle Catalog Number	Mating Plug Powerlite®	Complete Plug
30	1-1/2	2W, 3P	#4 - #6	<b>JBR3023-150</b>	ACP3023BC	CPH3023B
	1-1/2	3W, 4P	CU-AL	<b>JBR3034-150</b>	ACP3034BC	CPH3034B
60	1-1/2	2W, 3P	#4 - #6	<b>JBR6023-150</b>	ACP6023BC	CPH6023BC
	1-1/2	3W, 4P	CU-AL	<b>JBR6034-150</b>	ACP6034BC	CPH6034BC



### Accessories and Replacement Parts

Description	Catalog Number
Type 4X Drain (field installed)	<b>ECD50B4X</b>
Type 4X Breather (field installed)	<b>BRTB4X</b>
30 Amp Plug Clamping Ring (standard with 30 Amp models)	<b>30CRING</b>
30 Amp Screw Cover (for receptacle)	<b>30SCAP</b>

### Maximum Horsepower Ratings of Switch

Phase Motor	Amp	Motor Horsepower		
		240 Vac	480 Vac	600 Vac
1-Phase, 2W, 3P	30	7.5	15	20
	60	10	15	20
3-Phase, 3W, 4P	30	7.5	15	20
	60	10	25	30

• Flip cover suitable for NEMA 3, 3R only.

▼ NEMA 4 rating maintained with Appleton NEMA 4 plug installed. Select screw cover for 4, 4X. Both covers are included with product.


‡ Supplied with (2) 1-1/2" to 1-1/4" reducing bushings.

# Plugs for JBR Receptacles


## Data and Dimensions

Class I, Division 1 and 2, Groups B, C, D  
 Class II, Division 1 and 2, Groups F, G  
 Class III  
 NEMA 3\*, 3R\*, 4\*, 4X\*, 7BCD, 9FG

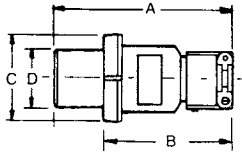
### ACP Plugs for JBR Receptacles

Cable Dia. (Inches)	30 Amp		60 Amp	
	2W, 3P	3W, 4P	2W, 3P	3W, 4P
 .390 to 1.375	ACP3023BC	ACP3034BC	ACP6023BC	ACP6034BC

### CPH Plugs for JBR Receptacles

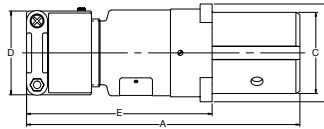
Cable Dia. (Inches)	30 Amp		60 Amp	
	2W, 3P	3W, 4P	2W, 3P	3W, 4P
 .390 to 1.375	CPH3023BC	CPH3034BC	CPH6023BC	CPH6034BC

### Dimensions of ACP Plugs



Max. Amp	No. Poles	Dimensions in Inches/Millimeters			
		A	B	C	D
30	2,3,4	6.00/152.4	4.75/120.6	3.13/79.5	1.86/47.2
60	2,3	7.81/198.3	4.94/125.4	3.50/88.9	2.23/56.6
60	4	7.81/198.3	4.94/125.4	3.81/96.7	2.55/64.7

### Dimensions of CPH Plugs



Max. Amp	Wire/Pole	Dimensions in Inches/Millimeters				
		A	B	C	D	E
30	2W, 3P; 3W, 4P	6.13/155.7	2.38/60.4	1.86/47.2	2.63/6.68	4.44/112.7
60	2W, 3P	8.44/214.3	3.06/77.7	3.06/77.7	2.63/6.68	5.69/144.5
60	3W, 4P	8.44/214.3	3.06/77.7	2.55/64.7	2.63/6.68	5.69/144.5

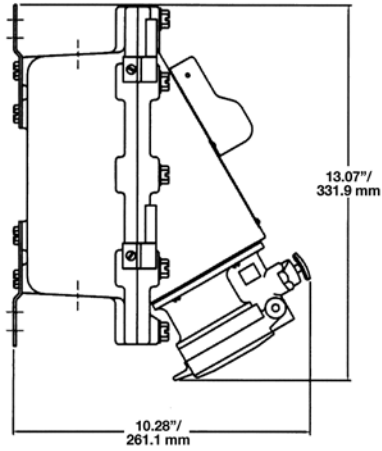
• Flip cover suitable for NEMA 3, 3R only.

▼ NEMA 4 rating maintained with Appleton NEMA 4 plug installed. Select screw cover for 4, 4X. Both covers are included with product.

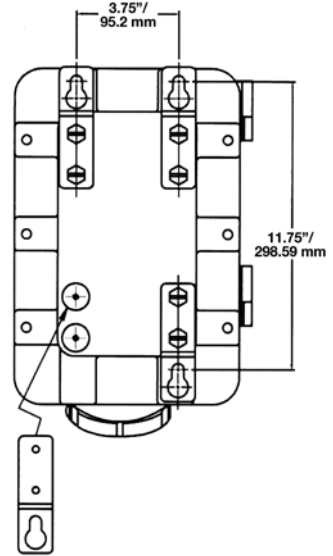


# JBR Series Switched Receptacle Dimensions

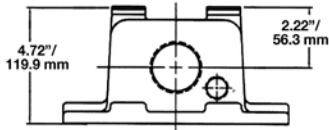
Shown with Flip Cover



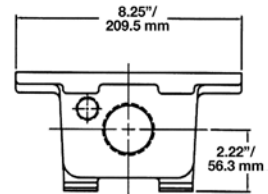
Drilling Plans for Mounting Bolts



Top View



Bottom View



Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

# EBR/DBR 30, 60, 100 and 150 Amp Series Receptacles

With Disconnect Switch or Circuit Breaker. Weatherproof Spring Cover. Explosionproof, Dust-Ignitionproof

600 Vac Max. 250 Vdc Max.

## EBR Receptacle

Class I, Division 1 and 2, Groups B<sup>+</sup>, C, D

Class II, Division 1 and 2, Groups F, G

Class III

NEMA 3<sup>+</sup>, 3R<sup>+</sup>, 4<sup>+</sup>, 4X<sup>+</sup>, 7CD, 9FG

## DBR Receptacle

Class II, Division 1 and 2, Groups F, G

Class III

NEMA 3, 3R, 4<sup>+</sup>, 4X<sup>+</sup>, 9FG

## Applications

- Locations where receptacles are used with stationary or portable electrically operated devices such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor-generator sets
  - Air conditioners
  - Compressors
  - Pumps
  - Locations where damp or corrosive conditions exist
- Class I: classified locations such as:
  - Petrochemical plants
  - Petroleum refineries
  - Paint and chemical plants
  - Any location where ignitable vapors or gases are present
- Class II: classified locations such as:
  - Process industries where there are dust hazards from handling such products as flour, grain and starch or any location where ignitable amounts of dust are present or amounts which would adversely affect performance

## Features

- Energized receptacle contacts deeply recessed to reduce danger of accidental touching.
- Style 2 (shell and extra pole) grounding.
- Spring door keeps dust out of receptacle when plug is not in use. Screw cap also supplied.
- Brass contacts exert constant pressure along entire contact surface and provide superior electrical contact.
- Contacts have beryllium copper wire springs.
- Plug mechanical cable clamps prevent strain on cables— they meet or exceed UL strain relief pull-out requirements.
- Neoprene bushing compressed by cable collar prevents entrance of water.
- Insulators provide superior dielectric and mechanical strength and lowest arc tracking.
- 1-1/2 NPT tapped conduit openings; one top to bottom.
- EBRH and DBR: interlocked disconnect switch provides safe connect and disconnect operation at 30, 60 or 100 Amp, 600 Vac maximum. Two or three pole, non-fused motor circuit switch. EBRH permits safe operation in Class I, Group B as well as Class I, Groups C and D, Class II, Groups F, G, and Class III (DBR in Class II and III only).
- EBR and DBR: interlocked circuit breaker provides interlocked connect and disconnect operation as well as short circuit and thermal time delay overload protection.
- To operate, insert plug (which automatically locks into receptacle) and turn Breaker Handle to ON position. To remove plug, turn Handle to OFF position, lift Plug Release Knob and pull plug out.
- ACP and CPH plug fits Powertite® Series hazardous location EBR, EBRH and DBR receptacles.

## Standard Materials

- EBR, EBRH and DBR receptacles: copperfree (4/10 of 1% max.) aluminum receptacle and mounting box
- CPH and ACP plugs: copperfree (4/10 of 1% max.) aluminum housings
- Insulating blocks: fiber glass reinforced polyester

• Flip cover suitable for NEMA 3, 3R only.

▼ NEMA 4 rating maintained with Appleton NEMA 4 plug installed. Select screw cover for 4, 4X. Both covers are included with product.

◆ Add suffix **-GB** to Cat. No. for Group B. (Group B version not suitable for NEMA 4, 4X).

▶ GE is a registered trademark of General Electric Company.



## Standard Finishes

- Receptacles, mounting boxes, cord connector housings and caps: epoxy powder coat

## Options

- For Group B version add suffix **-GB** to receptacle (Group B version not suitable for NEMA 4, 4X).
- For GE <sup>®</sup> breaker, add **-GE** to receptacle. Contact your local representative for availability and price.
- Molded case switch available on the 150 Amp versions, add suffix **-K** to receptacle.
- Special Polarization: Prevents plug insertion in a receptacle or connector wired for a different voltage. In installations where there are different line voltages, the special polarization option is desirable. This allows only plugs and receptacles wired for the same line voltage to be mated together. The receptacle or connector interior is positioned 22-1/2°, relative to the polarization rivet, to the right (as specified) of standard, and plug is polarized to correspond. This option can be added to receptacles using the Powertite® Plug. Add suffix **-P4** to receptacle or plug.
- For 2" feed-thru openings (one top, one bottom) add suffix **-22** to receptacle.
- 1 N/O and 1 N/C Auxiliary Contacts. Add suffix **-AUX**.

## Certifications and Compliances

- UL Standard: UL 1010 (UL 1203), UL 894, UL 1682, UL 1686
- UL Listed: E79132, E10784, E313360(EBR)

# EBR 30, 60, 100 and 150 Amp Series Receptacles

With Disconnect Switch or Circuit Breaker. Weatherproof Spring Cover. Explosionproof, Dust-Ignitionproof

600 Vac Max.. Pressure Wire Terminals.

Class I, Division 1 and 2, Groups B+, C, D  
 Class II, Division 1 and 2, Groups F, G  
 Class III  
 NEMA 3\*, 3R\*, 4\*, 4X\*, 7CD, 9FG

## EBRH Receptacles with Disconnect Switch

Receptacle	Wires/Poles	Catalog Number
30 Amp	2W, 3P	EBRH3023DS
	3W, 4P	EBRH3034DS
60 Amp	2W, 3P	EBRH6023DS
	3W, 4P	EBRH6034DS
100 Amp	2W, 3P	EBRH1023DS
	3W, 4P	EBRH1034DS



EBRH with Switch

## EBR Receptacles with Circuit Breaker †

Receptacle	Circuit Breaker Amp	Pole	Catalog Number		
			with 480 Vac EHD Breaker	with 600 Vac FDB Breaker	with 600 Vac FD Breaker
30 Amp 2W, 3P	20	2	EBR3023EH20	EBR3023FB20	EBR3023HFB20
	30	2	EBR3023EH30	EBR3023FB30	EBR3023HFB30
	40	2	EBR3023EH40	EBR3023FB40	EBR3023HFB40
	50	2	EBR3023EH50	EBR3023FB50	EBR3023HFB50
30 Amp 3W, 4P	20	3	EBR3034EH20	EBR3034FB20	EBR3034HFB20
	30	3	EBR3034EH30	EBR3034FB30	EBR3034HFB30
	40	3	EBR3034EH40	EBR3034FB40	EBR3034HFB40
	50	3	EBR3034EH50	EBR3034FB50	EBR3034HFB50
60 Amp 2W, 3P	50	2	EBR6023EH50	EBR6023FB50	EBR6023HFB50
	60	2	EBR6023EH60	EBR6023FB60	EBR6023HFB60
	70	2	EBR6023EH70	EBR6023FB70	EBR6023HFB70
	90	2	EBR6023EH90	EBR6023FB90	EBR6023HFB90
60 Amp 3W, 4P	100	2	EBR6023EH100	EBR6023FB100	EBR6023HFB100
	50	3	EBR6034EH50	EBR6034FB50	EBR6034HFB50
	60	3	EBR6034EH60	EBR6034FB60	EBR6034HFB60
	70	3	EBR6034EH70	EBR6034FB70	EBR6034HFB70
100 Amp 2W, 3P	90	3	EBR6034EH90	EBR6034FB90	EBR6034HFB90
	100	3	EBR6034EH100	EBR6034FB100	EBR6034HFB100
	50	2	EBR1023EH50	EBR1023FB50	EBR1023HFB50
	70	2	EBR1023EH70	EBR1023FB70	EBR1023HFB70
100 Amp 3W, 4P	90	2	EBR1023EH90	EBR1023FB90	EBR1023HFB90
	100	2	EBR1023EH100	EBR1023FB100	EBR1023HFB100
	50	3	EBR1034EH50	EBR1034FB50	EBR1034HFB50
	70	3	EBR1034EH70	EBR1034FB70	EBR1034HFB70
150 Amp 3W, 4P	90	3	EBR1034EH90	EBR1034FB90	EBR1034HFB90
	100	3	EBR1034EH100	EBR1034FB100	EBR1034HFB100
	150	3	N/A	N/A	EBR15034FD100 ‡
	150	3	N/A	N/A	EBR15034FD125 ‡
	150	3	N/A	N/A	EBR15034FD150 ‡



EBR with Breaker

1-1/2" threaded conduit openings – one in top and two in bottom

† Circuit Breakers are Cutler-Hammer. Cutler-Hammer F-Frame breakers available up to 175 Amps. Add **GE** after EH, FB, or HFB for GE Circuit Breakers. Contact your local representative for availability and price. Cutler-Hammer is a registered trademark of Eaton Corporation. GE is a registered trademark of General Electric Company.  
 • Flip cover suitable for NEMA 3, 3R only.  
 ▼ NEMA 4 rating maintained with Appleton NEMA 4 plug installed. Select screw cover for 4, 4X. Both covers are included with product.  
 ◆ Add suffix **-GB** to Cat. No. for Group B. (Group B version not suitable for NEMA 4, 4X)  
 ‡ Molded Case Switch available. Add suffix **-K**.


# DBR 30, 60 and 100 Amp Series Receptacles

With Disconnect Switch or Circuit Breaker. Weatherproof Spring Cover. Dust-Ignitionproof

600 Vac Max.

Class II, Division 1 and 2, Groups F, G  
Class III  
NEMA 3<sup>•</sup>, 3R<sup>•</sup>, 4<sup>▼</sup>, 4X<sup>▼</sup>, 9FG

## DBR Receptacles with Disconnect Switch

	Receptacle	Wires/Poles	Catalog Number
	30 Amp	2W, 3P	DBR3023DS
		3W, 4P	DBR3034DS
	60 Amp	2W, 3P	DBR6023DS
		3W, 4P	DBR6034DS
	100 Amp	2W, 3P	DBR1023DS
		3W, 4P	DBR1034DS

DBR with Switch

## DBR Receptacles with Circuit Breaker \*

Receptacle	Circuit Breaker Amp	Pole	Catalog Number		
			with 480 Vac EHD Breaker	with 600 Vac FDB Breaker	with 600 Vac FD Breaker
30 Amp 2W, 3P	20	2	DBR3023EH20	DBR3023FB20	DBR3023HFB20
	30	2	DBR3023EH30	DBR3023FB30	DBR3023HFB30
	40	2	DBR3023EH40	DBR3023FB40	DBR3023HFB40
	50	2	DBR3023EH50	DBR3023FB50	DBR3023HFB50
30 Amp 3W, 4P	20	3	DBR3034EH20	DBR3034FB20	DBR3034HFB20
	30	3	DBR3034EH30	DBR3034FB30	DBR3034HFB30
	40	3	DBR3034EH40	DBR3034FB40	DBR3034HFB40
	50	3	DBR3034EH50	DBR3034FB50	DBR3034HFB50
60 Amp 2W, 3P	50	2	DBR6023EH50	DBR6023FB50	DBR6023HFB50
	60	2	DBR6023EH60	DBR6023FB60	DBR6023HFB60
	70	2	DBR6023EH70	DBR6023FB70	DBR6023HFB70
	90	2	DBR6023EH90	DBR6023FB90	DBR6023HFB90
	100	2	DBR6023EH100	DBR6023FB100	DBR6023HFB100
60 Amp 3W, 4P	50	3	DBR6034EH50	DBR6034FB50	DBR6034HFB50
	60	3	DBR6034EH60	DBR6034FB60	DBR6034HFB60
	70	3	DBR6034EH70	DBR6034FB70	DBR6034HFB70
	90	3	DBR6034EH90	DBR6034FB90	DBR6034HFB90
100 Amp 2W, 3P	100	3	DBR6034EH100	DBR6034FB100	DBR6034HFB100
	50	2	DBR1023EH50	DBR1023FB50	DBR1023HFB50
	70	2	DBR1023EH70	DBR1023FB70	DBR1023HFB70
	90	2	DBR1023EH90	DBR1023FB90	DBR1023HFB90
100 Amp 3W, 4P	100	2	DBR1023EH100	DBR1023FB100	DBR1023HFB100
	50	3	DBR1034EH50	DBR1034FB50	DBR1034HFB50
	70	3	DBR1034EH70	DBR1034FB70	DBR1034HFB70
	90	3	DBR1034EH90	DBR1034FB90	DBR1034HFB90
	100	3	DBR1034EH100	DBR1034FB100	DBR1034HFB100



DBR with Breaker

- ◀ Circuit Breakers are Cutler-Hammer. Cutler-Hammer F-Frame breakers available up to 175 Amps. Add **GE** after EH, FB, or HFB for GE Circuit Breakers. Contact your local representative for availability and price. Cutler-Hammer is a registered trademark of Eaton Corporation. GE is a registered trademark of General Electric Company.
- Flip cover suitable for NEMA 3, 3R only.
- ▼ NEMA 4 rating maintained with Appleton NEMA 4 plug installed. Select screw cover for 4, 4X. Both covers are included with product.

# EBR/DBR Receptacles 30, 60, 100 and 150 Amp

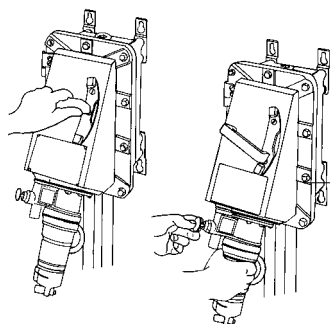
## Circuit Breaker and Disconnect Switch Data

600 Vac Maximum.



**EBR Shown**

Solderless lugs are provided for line connections, and receptacle is prewired to the load side of breaker. Cover-mounted components leave entire enclosure space free for pulling of line conductors and wiring.



**EBR Shown**

Plug is mechanically locked in receptacle when circuit breaker is ON. Design provides interlocked connect and disconnect operation as well as short circuit and thermal time delay overload protection.

Breaker operating handle can be padlocked in either ON or OFF position and is trip-free.

Enclosure has additional 3/4" threaded openings top and bottom for installation of optional drain and breather; reducers furnished.

### EBR/DBR Horsepower Tables

These Cutler-Hammer \* circuit breaker recommendations are for induction motors running with usual speed and torque characteristics. Ambient temperature, and frequency of starting could require different protective characteristics.

	HP	120 Vac	240 Vac	480 Vac	600 Vac
EBR3023 DBR3023 (2W, 3P, 1-Phase, 30 Amp 2-Pole)	1	40EHD	20EHD	15EHD	15FDB
	1-1/2	40EHD	30EHD	15EHD	15FDB
	2	50EHD	30EHD	20EHD	15FDB
	3	—	40EHD	30EHD	20FDB
	5	—	—	40EHD	30FDB
EBR6023 DBR6023 (2W, 3P, 1-Phase, 60 Amp 2-Pole)	7-1/2	—	—	40EHD	40FDB
	3	50EHD	—	—	—
	5	100EHD	50EHD	—	—
	7-1/2	—	70EHD	—	—
EBR3034 DBR3034 (3W, 4P, 3-Phase, 30 Amp 3-Pole)	10	—	—	50EHD	40FDB
	1	—	15EHD	15EHD	15FDB
	1-1/2	—	15EHD	15EHD	15FDB
	2	—	20EHD	15EHD	15FDB
	3	—	30EHD	15EHD	15FDB
	5	—	40EHD	20EHD	20FDB
	7-1/2	—	50EHD	30EHD	30FDB
	10	—	—	40EHD	30FDB
	15	—	—	40EHD	40FDB
	20	—	—	—	50FDB
EBR6034 DBR6034 (3W, 4P, 3-Phase, 60 Amp 3-Pole)	10	—	50EHD	—	—
	15	—	70EHD	—	—
	20	—	—	50EHD	—
	25	—	—	50EHD	50FDB
	30	—	—	70EHD	50FDB
	40	—	—	—	70FDB
	20	—	100EHD	—	—
EBR1034 DBR1034 (3W, 4P, 3-Phase, 100A and 150 Amp 3-Pole)	25	—	100EHD	—	—
	30	—	150FD	—	—
	40	—	—	100EHD	—
	50	—	—	100EHD	100FDB
	60	—	—	125FD	125FDB
	75	—	—	—	125FDB

### EBR/DBR Circuit Breaker Data – Cutler-Hammer \*

Frame	Continuous		Interrupting Ratings (RMS SYM Amp)		
	Amp	Max Volts	240 Vac	480 Vac	600 Vac
EHD	20-100	480	18,000	14,000	—
FDB	20-125	600	18,000	14,000	14,000
FD	20-150	600	65,000	25,000	18,000

### EBR/DBR Horsepower Rating Table – Disconnect Switch

Max. Amp	Max. Horsepower Rating				
	120 Vac	240 Vac	480 Vac	600 Vac	250 Vdc
30	5	10	20	25	7-1/2
60	10	20	40	60	15
100	15	30	75	75	25
150	—	50	100	150	—

\* Cutler-Hammer is a registered trademark of Eaton Corporation.

# Plugs for EBR, EBRH and DBR Receptacles

## Data and Dimensions

### ACP Plugs for EBR, EBRH and DBR Receptacles

Cable Dia. (Inches)	30 Amp		60 Amp		100 Amp		150 Amp
	2W, 3P	3W, 4P	2W, 3P	3W, 4P	2W, 3P	3W, 4P	3W, 4P
.390 to 1.375	ACP3023BC	ACP3034BC	ACP6023BC	ACP6034BC	—	—	—
.875 to 1.906	—	—	—	—	ACP1023CD	ACP1034CD	ACP15034CD
1.09 to 2.187	—	—	—	—	—	—	ACP15034DE

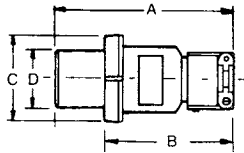


### CPH Plugs for EBR, EBRH and DBR Receptacles

Cable Dia. (Inches)	30 Amp		60 Amp		100 Amp		150 Amp
	2W, 3P	3W, 4P	2W, 3P	3W, 4P	2W, 3P	3W, 4P	3W, 4P
.390 to 1.375	CPH3023BC	CPH3034BC	CPH6023BC	CPH6034BC	—	—	—

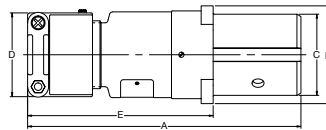


### Dimensions of ACP Plugs



Max. Amp	No. Poles	Dimensions in Inches/Millimeters			
		A	B	C	D
30	2,3,4	6.00/152.4	4.75/120.6	3.13/79.5	1.86/47.2
60	2,3	7.81/198.3	4.94/125.4	3.50/88.9	2.23/56.6
60	4	7.81/198.3	4.94/125.4	3.81/96.7	2.55/64.7
100	2,3	10.50/266.7	6.63/168.4	4.00/101.6	2.47/62.7
100	4	10.50/266.7	6.63/168.4	4.25/107.9	2.72/69.0
150 (CD & DE)	4	10.50/266.7	6.63/168.4	4.25/107.9	2.72/69.0

### Dimensions of CPH Plugs



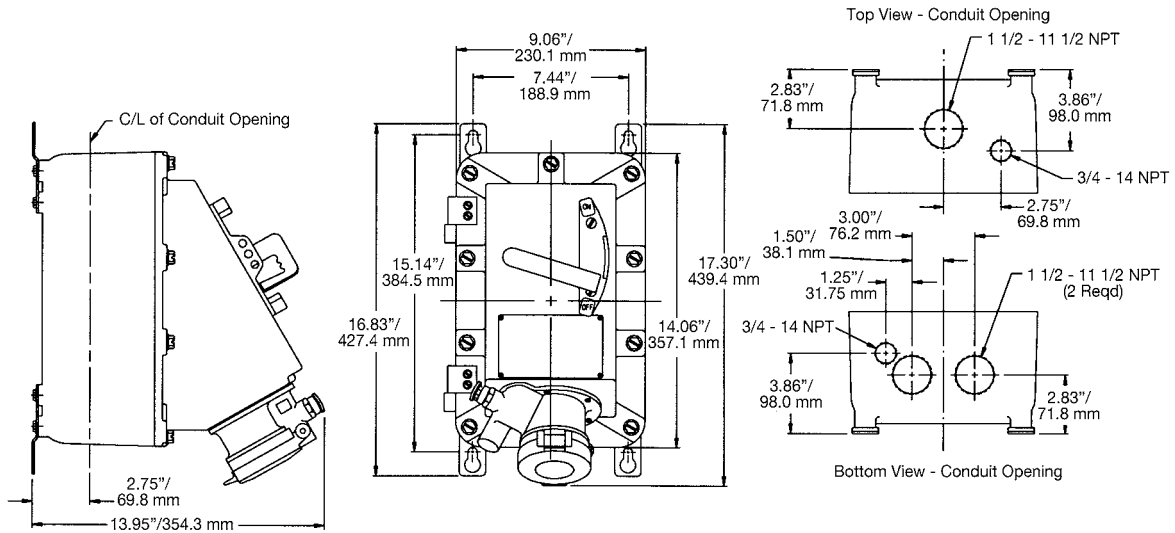
Max. Amp	Wire/Pole	Dimensions in Inches/Millimeters				
		A	B	C	D	E
30	2W, 3P; 3W, 4P	6.13/155.7	2.38/60.4	1.86/47.2	2.63/6.68	4.44/112.7
60	2W, 3P	8.44/214.3	3.06/77.7	3.06/77.7	2.63/6.68	5.69/144.5
60	3W, 4P	8.44/214.3	3.06/77.7	2.55/64.7	2.63/6.68	5.69/144.5

Plugs and Receptacles

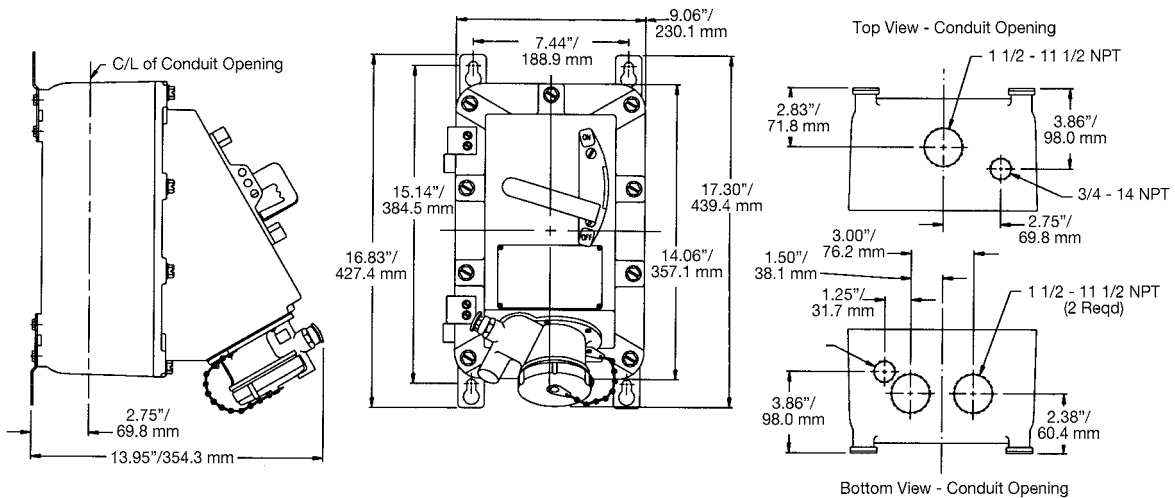
PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

# EBR and EBRH Receptacle Dimensions

## Shown with Flip Cover

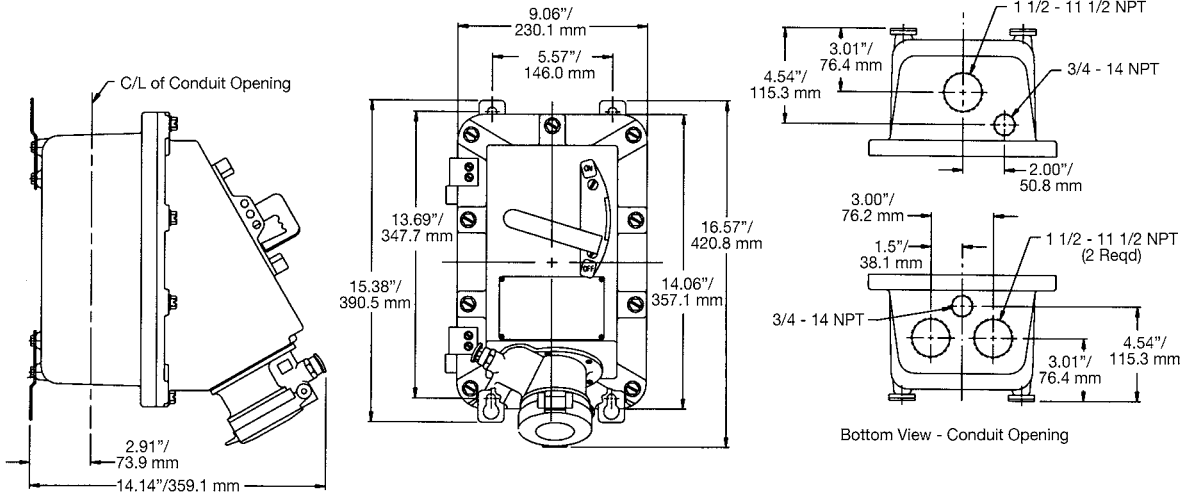


## Shown with Screw Cover

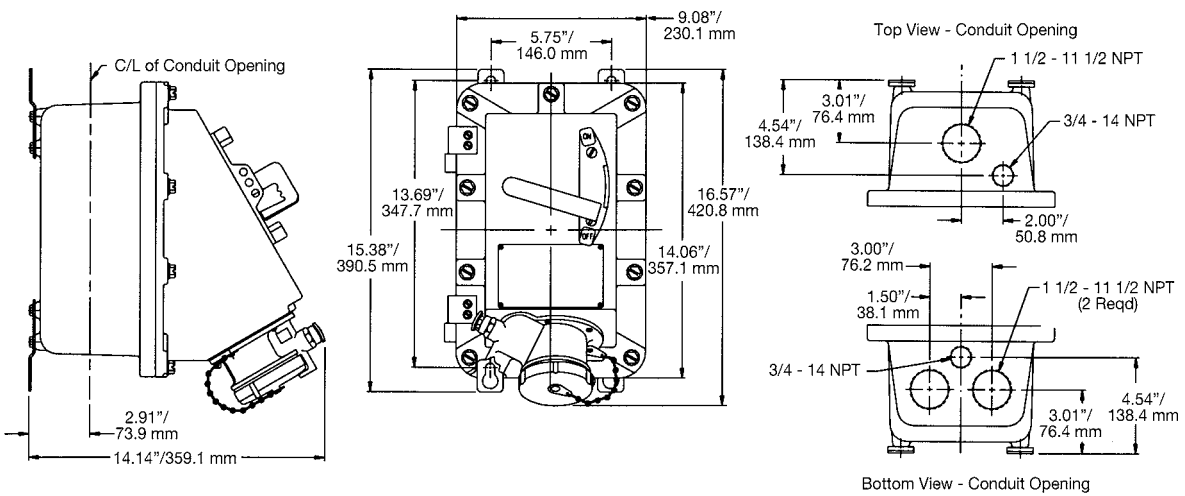


# DBR Receptacle Dimensions

## Shown with Flip Cover



## Shown with Screw Cover



Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION



# EBR Interlocked Circuit Breaker Receptacle for Portable Electrical Equipment

CSA Certification Only. Explosionproof, Dust-Ignitionproof, Weather Resistant

30, 60, 100 and 150 Amp, 600 Vac

*Class I, Groups B, C, D*

*Class II, Group G and Coal Dust*

*Class III*

*CSA Type 3\*, 3R\*, 4\*, 4X\*, 7CD, 9G, 12*

## Applications

- The EBR is designed to connect portable electrical equipment for use in hazardous areas such as:
  - Compressors
  - Conveyors
  - Motor generators
  - Air conditioners
  - Heaters
- Its construction and features provide short circuit protection and is ideally suited for use in:
  - Damp, wet locations
  - Corrosive areas
  - Indoor or outdoor
  - Hazardous or non-hazardous locations
- Class I: classified locations such as:
  - Refineries
  - Petrochemical plants
  - Petroleum refineries
  - Paint and chemical plants
  - Any location where ignitable vapors or gases are present
- Class II: classified locations such as:
  - Process industries where there are dust hazards from handling such products as flour, grain and starch
  - Any location where ignitable amounts of dust are present or amounts which would adversely affect performance

## Features

- Plug is mechanically locked in receptacle when circuit breaker is ON. Design provides interlocked connect and disconnect operation as well as short circuit and thermal time delay overload protection.
- Plug and receptacle contacts cannot be made or broken under load. Breaker operating handle can be padlocked in either ON or OFF position and is trip free.
- Body is easily installed with 4 mounting brackets provided, each having keyhole slots. Body has three 1 1/2" taper tapped conduit openings – (1) top and (2) bottom. Also provided are 3/4" threaded openings (3/4" -1/2" reducer furnished) top and bottom for installation of optional drain and breathers.
- Appleton's EBR explosion-proof receptacle with interlocked circuit breakers utilize either ACP or CPH series plugs.
- The cover is secured with captive quick-bolts for easy installation or removal.
- Receptacle ratings available are 30, 60, and 150 Amp.
- Circuit Breakers are thermal-magnetic type – 150 Amp frame size, 20 to 100 Amp trip.

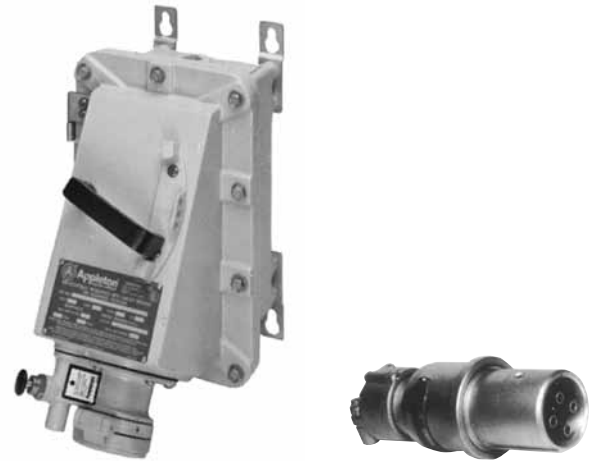
## Options

- Special Polarization: Prevents plug insertion in a receptacle or connector wired for a different voltage. In installations where there are different line voltages, the special polarization option is desirable. This allows only plugs and receptacles wired for the same line voltage to be mated together. The receptacle or connector interior is positioned 22-1/2°, relative to the polarization rivet, to the right (as specified) of standard, and plug is polarized to correspond. This option can be added to receptacles using the Powertite® Plug. Suffix **-PR** to receptacle or plug.

• *Flip cover suitable for NEMA 3, 3R only.*

▼ *NEMA 4 rating maintained with Appleton NEMA 4 plug installed. Select screw cover for 4, 4X. Both covers are included with product. The EBR will also accept Crouse-Hinds APJ series plugs. Crouse-Hinds and APJ are registered trademarks of Cooper Crouse-Hinds.*

✱ *CSA Certification only.*



- 1 N/O and 1 N/C Auxiliary Contacts – Suffix **-XLK**.
- 2 N/O and 2 N/C Auxiliary Contacts – Suffix **-2XLK**.
- CSA 4X ▼ Versions available. Add suffix **-4X**.

## Standard Materials and Finishes

- Receptacle and mounting box: copperfree (4/10 of 1% max.) aluminum with gray epoxy coated inside and out
- Quick-bolts and hinge pins: stainless steel

## Certifications and Compliances

- CSA Standard: C22.2 No. 25, C22.2 No. 30, C22.2 No. 159, C22.2 No.182.1
- CSA Certified: 038644

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

# EBR Interlocked Circuit Breaker Receptacle for Portable Electrical Equipment

CSA Certification Only. Explosionproof, Dust-Ignitionproof, Weather Resistant

30, 60, 100 and 150 Amp, 600 Vac

Class I, Groups B, C, D

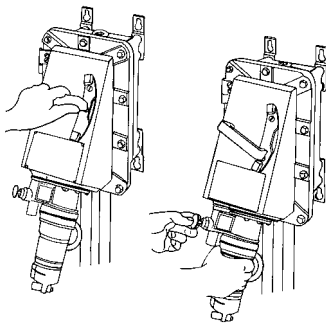
Class II, Group G

Class III

CSA Type 3\*, 3R\*, 4\*, 4X\*, 7CD, 9G, 12



Solderless lugs are provided for line connections, and receptacle is prewired to the load side of breaker. Cover-mounted components leave entire enclosure space free for pulling of line conductors and wiring.



Plug is mechanically locked in receptacle when circuit breaker is ON. Design provides interlocked connect and disconnect operation as well as short circuit and thermal time delay overload protection.

Breaker operating handle can be padlocked in either ON or OFF position and is trip-free.

Enclosure has additional 3/4" threaded openings top and bottom for installation of optional drain and breather; reducers furnished.

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

## Horsepower Tables

These Cutler-Hammer \* circuit breaker recommendations are for induction motors running with usual speed and torque characteristics. Ambient temperature, and frequency of starting could require different protective characteristics.

	HP	120 Vac	240 Vac	480 Vac	600 Vac
2W, 3P, 1-Phase, 30 Amp 2-Pole	1	40EHD	20EHD	15EHD	15FDB
	1-1/2	40EHD	30EHD	15EHD	15FDB
	2	50EHD	30EHD	20EHD	15FDB
	3	—	40EHD	30EHD	20FDB
	5	—	—	40EHD	30FDB
2W, 3P, 1-Phase, 60 Amp 2-Pole	7-1/2	—	—	40EHD	40FDB
	3	50EHD	—	—	—
	5	100EHD	50EHD	—	—
	7-1/2	—	70EHD	—	—
3W, 4P, 3-Phase, 30 Amp 3-Pole	10	—	—	50EHD	40FDB
	1	—	15EHD	15EHD	15FDB
	1-1/2	—	15EHD	15EHD	15FDB
	2	—	20EHD	15EHD	15FDB
	3	—	30EHD	15EHD	15FDB
	5	—	40EHD	20EHD	20FDB
	7-1/2	—	50EHD	30EHD	30FDB
	10	—	—	40EHD	30FDB
	15	—	—	40EHD	40FDB
	20	—	—	—	50FDB
3W, 4P, 3-Phase, 60 Amp 3-Pole	10	—	50EHD	—	—
	15	—	70EHD	—	—
	20	—	—	50EHD	—
	25	—	—	50EHD	50FDB
	30	—	—	70EHD	50FDB
	40	—	—	—	70FDB
3W, 4P, 3-Phase, 100A and 150 Amp 3-Pole	20	—	100EHD	—	—
	25	—	100EHD	—	—
	30	—	150FD	—	—
	40	—	—	100EHD	—
	50	—	—	100EHD	100FDB
	60	—	—	125FD	125FDB
	75	—	—	—	125FDB

## Circuit Breaker Data — Cutler-Hammer \*

Frame	Continuous		Interrupting Ratings (RMS SYM Amp)		
	Amp	Max Volts	240 Vac	480 Vac	600 Vac
EHD	20-100	480	18,000	14,000	—
FDB	20-125	600	18,000	14,000	14,000
FD	20-150	600	65,000	25,000	18,000
HFD	20-100	600	100,000	65,000	25,000

## Horsepower Rating Table — Disconnect Switch

Max. Amp	Max. Horsepower Rating				
	120 Vac	240 Vac	480 Vac	600 Vac	250 Vdc
30	5	10	20	25	7-1/2
60	10	20	40	60	15
100	15	30	75	75	25
150	—	50	100	150	—

\* Cutler-Hammer is a registered trademark of Eaton Corporation.

† CSA Certification only.

# EBR Interlocked Circuit Breaker Receptacle for Portable Electrical Equipment

CSA Certification Only. Explosionproof, Dust-Ignitionproof, Weather Resistant

30, 60, 100 and 150 Amp, 600 Vac

Class I, Groups B, C, D

Class II, Group G

Class III

CSA Type 3\*, 3R\*, 4\*, 4X\*, 7CD, 9G, 12

Receptacle Description	Circuit Breaker		With 480 Vac		With 600 Vac	
	Amp	Pole	EHD Breaker	FDB Breaker	FD Breaker	HFD Breaker
30 Amp 2P 3W	20	2	EBR3023EHD20W	EBR3023FDB20W	EBR3023FD20W	EBR3023HFD20W
	30		EBR3023EHD30W	EBR3023FDB30W	EBR3023FD30W	EBR3023HFD30W
	40		EBR3023EHD40W	EBR3023FDB40W	EBR3023FD40W	EBR3023HFD40W
	50		EBR3023EHD50W	EBR3023FDB50W	EBR3023FD50W	EBR3023HFD50W
30 Amp 3P 4W	20	3	EBR3034EHD20W	EBR3034FDB20W	EBR3034FD20W	EBR3034HFD20W
	30		EBR3034EHD30W	EBR3034FDB30W	EBR3034FD30W	EBR3034HFD30W
	40		EBR3034EHD40W	EBR3034FDB40W	EBR3034FD40W	EBR3034HFD40W
	50		EBR3034EHD50W	EBR3034FDB50W	EBR3034FD50W	EBR3034HFD50W
60 Amp 2P 3W	50	2	EBR6023EHD50W	EBR6023FDB50W	EBR6023FD50W	EBR6023HFD50W
	60		EBR6023EHD60W	EBR6023FDB60W	EBR6023FD60W	EBR6023HFD60W
	70		EBR6023EHD70W	EBR6023FDB70W	EBR6023FD70W	EBR6023HFD70W
	90		EBR6023EHD90W	EBR6023FDB90W	EBR6023FD90W	EBR6023HFD90W
	100		EBR6023EHD100W	EBR6023FDB100W	EBR6023FD100W	EBR6023HFD100W
60 Amp 3P 4W	50	3	EBR6034EHD50W	EBR6034FDB50W	EBR6034FD50W	EBR6034HFD50W
	60		EBR6034EHD60W	EBR6034FDB60W	EBR6034FD60W	EBR6034HFD60W
	70		EBR6034EHD70W	EBR6034FDB70W	EBR6034FD70W	EBR6034HFD70W
	90		EBR6034EHD90W	EBR6034FDB90W	EBR6034FD90W	EBR6034HFD90W
	100		EBR6034EHD100W	EBR6034FDB100W	EBR6034FD100W	EBR6034HFD100W
100 Amp 2P 3W	50	2	EBR1023EHD50W	EBR1023FDB50W	EBR1023FD50W	EBR1023HFD50W
	70		EBR1023EHD70W	EBR1023FDB70W	EBR1023FD70W	EBR1023HFD70W
	90		EBR1023EHD90W	EBR1023FDB90W	EBR1023FD90W	EBR1023HFD90W
	100		EBR1023EHD100W	EBR1023FDB100W	EBR1023FD100W	EBR1023HFD100W
100 Amp 3P 4W	50	3	EBR1034EHD50W	EBR1034FDB50W	EBR1034FD50W	EBR1034HFD50W
	70		EBR1034EHD70W	EBR1034FDB70W	EBR1034FD70W	EBR1034HFD70W
	90		EBR1034EHD90W	EBR1034FDB90W	EBR1034FD90W	EBR1034HFD90W
	100		EBR1034EHD100W	EBR1034FDB100W	EBR1034FD100W	EBR1034HFD100W
150 Amp 3W, 4P	50	3	N/A	N/A	EBR15034FD100W ‡	N/A
	70		N/A	N/A	EBR15034FD125W ‡	N/A
	90		N/A	N/A	EBR15034FD150W ‡	N/A

One Threaded  
(1-1/2")  
Conduit Opening  
in Top



Two Threaded  
(1-1/2")  
Conduit Openings  
in Bottom

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

## ACP Plugs for EBR Receptacles

Cable Dia. (Inches)	30 Amp		60 Amp		100 Amp		150 Amp
	3W/2P	4W/3P	3W/2P	4W/3P	3W/2P	4W/3P	3W/4P
.500 to .875	ACP3023BC	ACP3034BC	ACP6023BC	ACP6034BC	—	—	—
.875 to 1.375	—	—	—	—	ACP1023CD	ACP1034CD	—
1.09 to 2.187	—	—	—	—	—	—	ACP15034CD ACP15034DE



• Flip cover suitable for NEMA 3, 3R only.

▼ NEMA 4 rating maintained with Appleton NEMA 4 plug installed. Select screw cover for 4, 4X. Both covers are included with product.

‡ Molded Case Switch available. Add suffix -K.

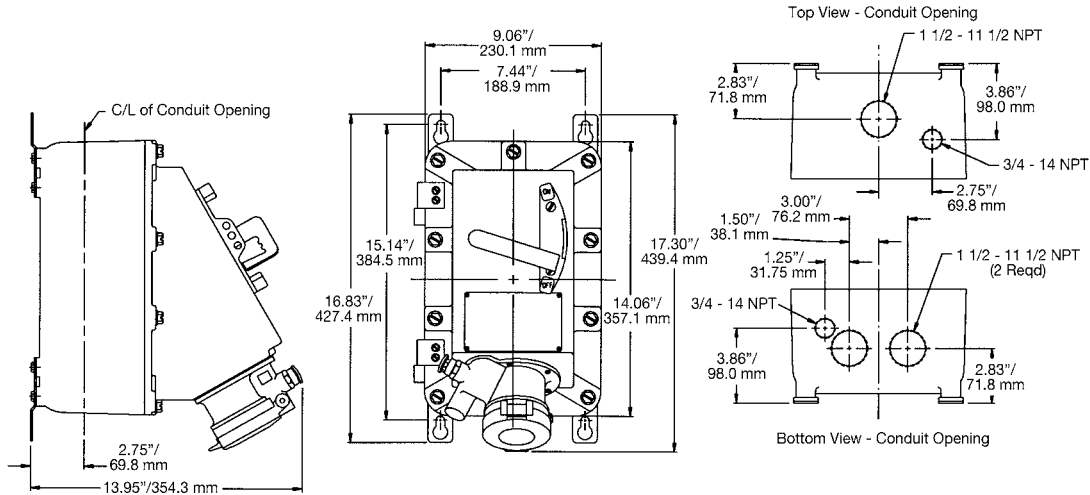
\* CSA Certification only.

# EBR Interlocked Circuit Breaker Receptacle Dimensions

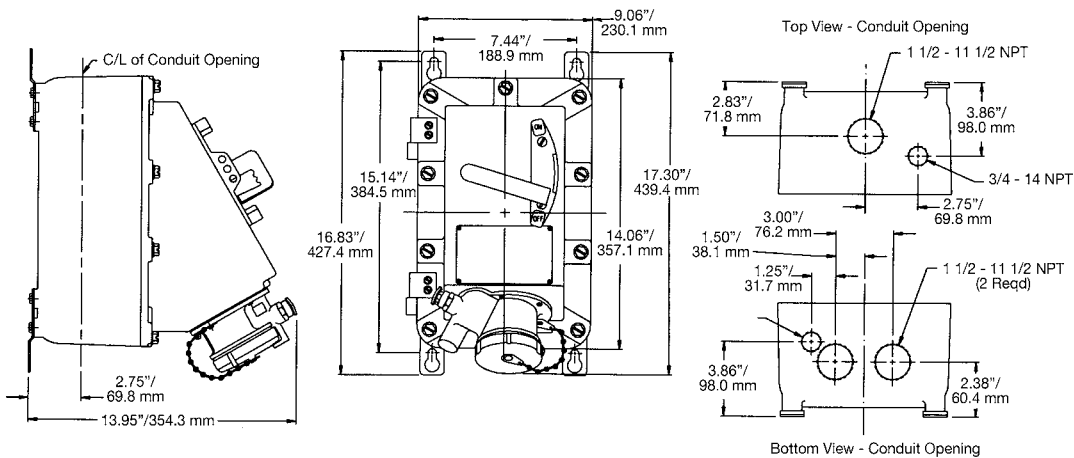
CSA Certification Only. Explosionproof, Dust-Ignitionproof, Weather Resistant

30, 60, 100 and 150 Amp, 600 Vac

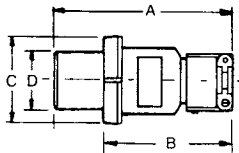
## Shown with Flip Cover



## Shown with Screw Cover



## ACP Plugs



Max. Amp	No. Poles	Dimensions in Inches/Millimeters			
		A	B	C	D
30	2,3,4	6.00/152.4	4.75/120.6	3.13/79.5	1.86/47.2
60	2,3	7.81/198.3	4.94/125.4	3.50/88.9	2.23/56.6
60	4	7.81/198.3	4.94/125.4	3.81/96.7	2.55/64.7
100	2,3	10.50/267	6.63/168.4	4.00/101.6	2.47/62.7
100	4	10.50/266.7	6.63/168.4	4.25/107.9	2.72/69.0

 CSA Certification only.

# MD2SR Factory Sealed Interlocked Switched Receptacles

Dead Front Interlocked Construction; No External Seals Required.

Class I, Division 2, Groups B, C, D  
Class II, Division 1 and 2, Groups F, G  
Class III  
Class I, Zone 2, Group IIC T3  
NEMA 3\*, 3R\*, 4\*, 4X\*, 9FG, 12

## Applications

- Locations where receptacles are used with stationary or portable electrically operated devices such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor generator sets
  - Air conditioners
  - Compressors
  - Pumps

## Features

- Factory sealed; no external seals required.
- Available in fused and unfused versions.
- UL Listed for use with Appleton ACP plugs.
- UL Classified for use with competitors like plugs.
- Positive polarization; only plugs of the same style, number of poles, and Amperage rating may be used with these receptacles.
- Plug must be inserted into the receptacle before the switch can be turned on. Plug cannot be withdrawn unless the switch is in the off position.
- Cover bolts are stainless steel and captive.
- Insulated, dual-color polymer operating handle clearly indicates the switch being energized. Ergonomically designed handle is made of high-impact polymer material for exceptional ruggedness, durability and corrosion resistance.
- Style 2 (shell and extra pole) grounding.
- Removable hinged cover allows for ease of installation and maintenance.
- Short circuit withstand rated to 200,000 RMS symmetrical amperes (Class J fusing).
- Short circuit withstand rated to 10,000 RMS symmetrical amperes (unfused).
- Conduit entry is drilled and tapped to 1-1/2". Reducer bushings 1-1/2"-1-1/4" and 1-1/2"-1" provided at no additional cost.
- Stainless steel key-hole mounting feet for easy installation.
- Accommodates #8 - #4/0 AWG copper wire.
- Unit is equipped with defeatable door interlock which allows emergency access when switch is energized.
- Cover can be padlocked closed.
- Operating handle can be locked in the OFF position with provision to lock in the ON position.

## Standard Materials

- Enclosure: copperfree (4/10 of 1% max.) aluminum
- Operating handle: high impact polymer
- Hardware: stainless steel

## Standard Finish

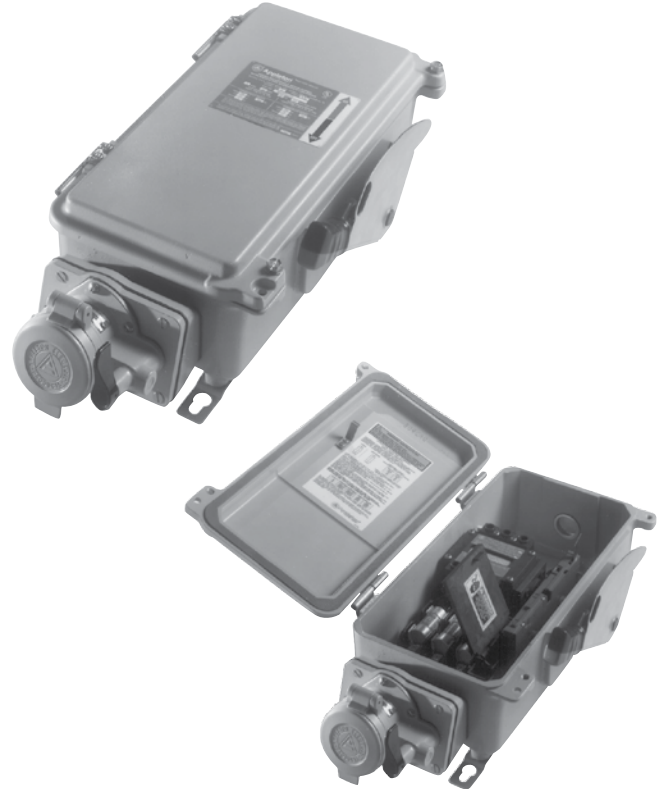
- Enclosure: epoxy powder coating inside and outside

## Options

- One normally opened, one normally closed auxiliary switch, add suffix **-AUX**.
- Two normally opened, two normally closed auxiliary switch, add suffix **-2AUX**.

• Flip cover suitable for NEMA 3, 3R only.

▼ NEMA 4 rating maintained with Appleton NEMA 4 plug installed. Select screw cover for 4, 4X. Both covers are included with product.



- Special Polarization: Prevents plug insertion in a receptacle or connector wired for a different voltage. In installations where there are different line voltages, the special polarization option is desirable. This allows only plugs and receptacles wired for the same line voltage to be mated together. The receptacle or connector interior is positioned 22-1/2°, relative to the polarization rivet, to the right (as specified) of standard, and plug is polarized to correspond. Suffix **-P4** to receptacle.
- Reverse Service is useful where a "hot" plug feeds a dead receptacle. Reverse service is often used for generator applications where the receptacle houses a dead plug interior. Plug houses an energized receptacle interior, which has recessed male contacts to reduce danger of accidental touching. 30 and 60 Amp units can be easily converted to reverse service in the field when matching plug and receptacle are ordered. Add suffix **-RS** to receptacle or connector.

## Certifications and Compliances

- UL Standard: UL 894, UL 1203, UL 1604, UL 1682, UL 1686
- UL Listed: E10784

# MD2SR Factory Sealed Interlocked Switched Receptacles

Dead Front Interlocked Construction; No External Seals Required.

Class I, Division 2, Groups B, C, D  
 Class II, Division 1 and 2, Groups F, G  
 Class III  
 Class I, Zone 2, Group IIC T3  
 NEMA 3\*, 3R\*, 4\*, 4X\*, 9FG, 12

Amp	Wires/Poles	Max HP	Fusing *	Catalog Number **	Mating Plug
30	2W, 3P	3 HP @ 240 Vac	Non-Fused	<b>MD2SR3023U</b>	ACP3023BC
			Fused	<b>MD2SR3023F</b>	
	3W, 4P	20 HP @ 600 Vac 30 HP @ 600 Vac	Non-Fused	<b>MD2SR3034U</b>	ACP3034BC
			Fused	<b>MD2SR3034F</b>	
60	2W, 3P	7.5 HP @ 240 Vac 10 HP @ 240 Vac	Non-Fused	<b>MD2SR6023U</b>	ACP6023BC
			Fused	<b>MD2SR6023F</b>	
	3W, 4P	50 HP @ 600 Vac	Non-Fused	<b>MD2SR6034U</b>	ACP6034BC
			Fused	<b>MD2SR6034F</b>	
100	2W, 3P	10 HP @ 240 Vac	Non-Fused	<b>MD2SR1023U</b>	ACP1023CD
			Fused	<b>MD2SR1023F</b>	
	3W, 4P	50 HP @ 600 Vac	Non-Fused	<b>MD2SR1034U</b>	ACP1034CD
			Fused	<b>MD2SR1034F</b>	

## ACP Plugs for MD2SR Receptacles

Cable Dia. (Inches)	30 Amp		60 Amp		100 Amp	
	2W, 3P	3W, 4P	2W, 3P	3W, 4P	2W, 3P	3W, 4P
.390 to 1.375	<b>ACP3023BC</b>	<b>ACP3034BC</b>	<b>ACP6023BC</b>	<b>ACP6034BC</b>	—	—
.875 to 1.906	—	—	—	—	<b>ACP1023CD</b>	<b>ACP1034CD</b>

## CPH Plugs for MD2SR Receptacles

Cable Dia. (Inches)	30 Amp		60 Amp		100 Amp	
	2W, 3P	3W, 4P	2W, 3P	3W, 4P	2W, 3P	3W, 4P
.390 to 1.375	<b>CPH3023BC</b>	<b>CPH3034BC</b>	<b>CPH6023BC</b>	<b>CPH6034BC</b>	—	—

• Flip cover suitable for NEMA 3, 3R only.

▼ NEMA 4 rating maintained with Appleton NEMA 4 plug installed. Select screw cover for 4, 4X. Both covers are included with product.

\* Fused units contain fuse holders; fuses not included.

‡ For auxiliary switch: one normally opened, one normally closed, add suffix **-AUX**.

† For special polarization add **-P4**.

Plugs and Receptacles

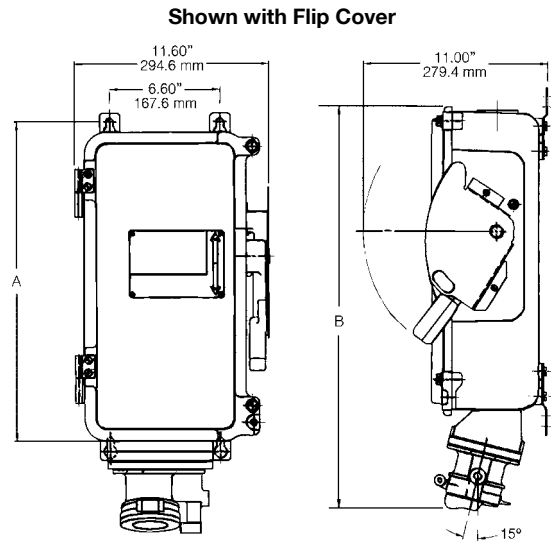
PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

# MD2SR Factory Sealed Interlocked Switched Receptacle Dimensions

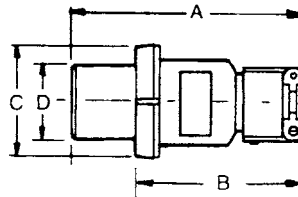
Dead Front Interlocked Construction; No External Seals Required.

## MD2SR

Catalog No.	Dimensions in Inches/Millimeters	
	A	B
MD2SR3023U	19.25/488.9	24.33/617.9
MD2SR3023F	19.25/488.9	24.33/617.9
MD2SR3034U	19.25/488.9	24.33/617.9
MD2SR3034F	19.25/488.9	24.33/617.9
MD2SR6023U	19.25/488.9	24.33/617.9
MD2SR6023F	19.25/488.9	24.33/617.9
MD2SR6034U	19.25/488.9	24.33/617.9
MD2SR6034F	19.25/488.9	24.33/617.9
MD2SR1023U	19.25/488.9	24.33/617.9
MD2SR1023F	22.88/581.1	27.96/710.1
MD2SR1034U	19.25/488.9	24.33/617.9
MD2SR1034F	22.88/581.1	27.96/710.1

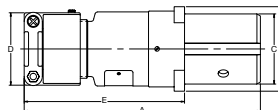


## Dimensions of ACP Plugs



Max. Amp	No. Poles	Dimensions in Inches/Millimeters			
		A	B	C	D
30	2,3,4	6.00/152.4	4.75/120.6	3.13/79.5	1.86/47.2
60	2,3	7.81/198.3	4.94/125.4	3.50/88.9	2.23/56.6
60	4	7.81/198.3	4.94/125.4	3.81/96.7	2.55/64.7
100	2,3	10.50/266.7	6.63/168.4	4.00/101.6	2.47/62.7
100	4	10.50/266.7	6.63/168.4	4.25/107.9	2.72/69.0

## Dimensions of CPH Plugs



Max. Amp	Wire/Pole	Dimensions in Inches/Millimeters				
		A	B	C	D	E
30	2W, 3P; 3W, 4P	6.13/155.7	2.38/60.4	1.86/47.2	2.63/6.68	4.44/112.7
60	2W, 3P	8.44/214.3	3.06/77.7	3.06/77.7	2.63/6.68	5.69/144.5
60	3W, 4P	8.44/214.3	3.06/77.7	2.55/64.7	2.63/6.68	5.69/144.5

# ID2SR Factory Sealed Interlocked Switched Receptacles

## CSA Certification Only

Dead Front Interlocked Construction; No External Seals Required.

Class I, Division 2, Groups B, C and D  
Class II, Division 1 and 2, Groups F\* and G  
Class III  
CSA Type 3, 3R, 4†, 4X†, 9F\*G, 12

### Applications

- Locations where receptacles are used with stationary or portable electrically operated devices such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor generator sets
  - Air conditioners
  - Compressors
  - Pumps

### Features

- Factory sealed; No external seals required.
- Available in unfused versions only.
- Certified for use with Appleton ACP plugs †.
- Positive polarization; only plugs of the same style, number of poles, and amperage rating may be used with these receptacles.
- Safety Interlock mechanism. Plug must be inserted into the receptacle before the switch can be turned on. Plug cannot be withdrawn unless the switch is in the OFF position.
- Cover latches are stainless steel.
- Standard epoxy powder coating delivers exceptional corrosion resistance.
- Ergonomically designed.
- Rugged cast aluminum handle for exceptional durability and corrosion resistance.
- Style 2 (shell and extra pole) grounding.
- Removable hinged cover allows for ease of installation and maintenance.
- Short circuit withstand rated to 10,000 RMS Symmetrical Amperes (Unfused).
- Stainless steel key-hole mounting feet for easy installation.
- Accommodates #8 – #4/0 AWG copper wire.
- Unit is equipped with defeatable door interlock which allows emergency access when switch is energized.
- Cover can be padlocked closed.
- Operating handle can be locked in the OFF position with provision to lock in the ON position.

### Standard Materials

- Enclosure: copper-free aluminum with epoxy powder coating
- Operating handle: durable cast aluminum
- Hardware: stainless steel

### Options

- One normally opened, one normally closed auxiliary switch, add suffix **-AUX**.
- LED indicator lights: one light indicates power to unit and other indicates switch is in ON position add suffix **-IL**.
- Supplied with viewing window add suffix **-W**.



Enclosure cover can be padlocked closed

- Special Polarization: Prevents plug insertion in a receptacle or connector wired for a different voltage. In installations where there are different line voltages, the special polarization option is desirable. This allows only plugs and receptacles wired for the same line voltage to be mated together. The receptacle or connector interior is positioned 22-1/2°, relative to the polarization rivet, to the right (as specified) of standard, and plug is polarized to correspond. Suffix **-P4** to receptacle.
- Reverse Service application available – Consult with local representative on use and application prior to ordering.

### Certifications and Compliances

- CSA Standard: C22.2 No.4, C22.2 No. 25, C22.2 No. 159, C22.2 No. 182.1
- CSA Certified: 038644

\* Do not use where electrically conductive dusts are present (most coal dusts are not electrically conductive).

† Flip cap suitable for CSA Type 3, 3R only. Select screw cover for 4, 4X. Both caps are included with product. NEMA 4 rating maintained with Appleton NEMA 4 plug installed. (Screw cap not available on 30 Amp).

‡ The ID2SR will also accept Crouse-Hinds Arkrite plugs. Crouse-Hinds and Arkrite are registered trademarks of Cooper Crouse-Hinds.

☑ CSA Certification only.



# ID2SR Factory Sealed Interlocked Switched Receptacles


## CSA Certification Only

Dead Front Interlocked Construction; No External Seals Required.

### CSA Certifications:

Class I, Division 2, Groups B, C and D  
 Class II, Division 1 and 2, Groups F\* and G  
 Class III  
 CSA Type 3, 3R, 4†, 4X†, 9F\*G, 12

### ID2SR Receptacles


	Amps	Wires/Poles	Max HP	Mating Plug	Catalog Number	
					Non-Fused	Fused
	30	2W, 3P	3 HP @ 240 Vac	ACP3023BC	ID2SR3023	ID2SR3023F
		3W, 4P	20 HP @ 600 Vac	ACP3034BC	ID2SR3034	ID2SR3034F
	60	2W, 3P	7.5 HP @ 240 Vac	ACP6023BC	ID2SR6023	ID2SR6023F
		3W, 4P	50 HP @ 600 Vac	ACP6034BC	ID2SR6034	ID2SR6034F
	100	2W, 3P	10 HP @ 240 Vac	ACP1023CD	ID2SR1023	ID2SR1023F
		3W, 4P	50 HP @ 600 Vac	ACP1034CD	ID2SR1034	ID2SR1034F

### ACP Plugs for ID2SR Receptacles

Cable Dia. (Inches)	30 Amp		60 Amp		100 Amp	
	2W, 3P	3W, 4P	2W, 3P	3W, 4P	2W, 3P	3W, 4P
.390 to 1.375	ACP3023BC	ACP3034BC	ACP6023BC	ACP6034BC	—	—
.875 to 1.906	—	—	—	—	ACP1023CD	ACP1034CD

\* Do not use where electrically conductive dusts are present (most coal dusts are not electrically conductive).

† Flip cap suitable for NEMA 3, 3R only. Select screw cover for 4, 4X. Both caps are included with product. NEMA 4 rating maintained with Appleton NEMA 4 plug installed. (Screw cap not available on 30 Amp).

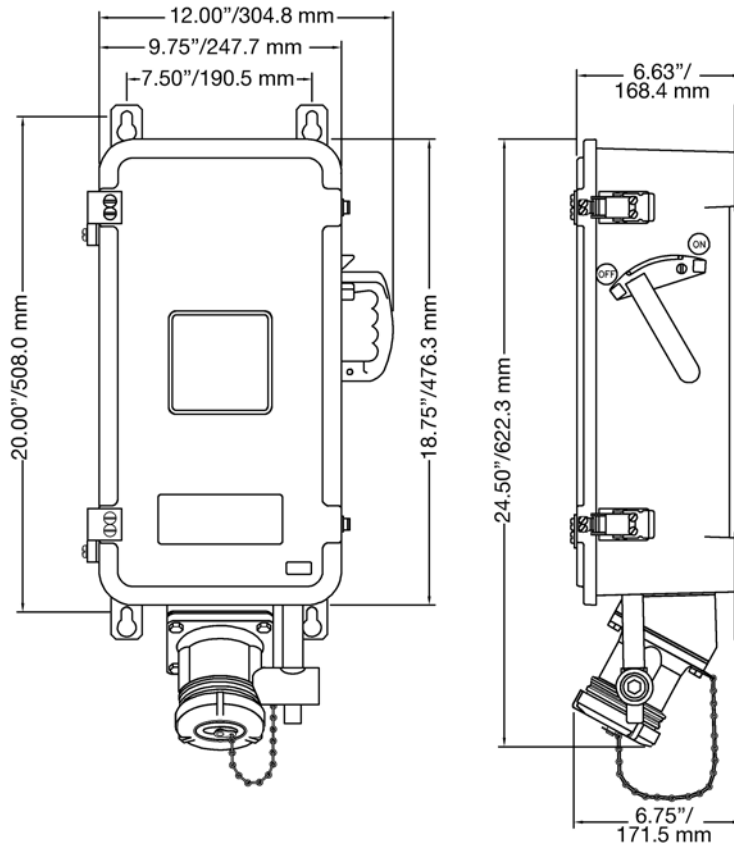
 CSA Certification only.

# ID2SR Factory Sealed Interlocked Switched Receptacle Dimensions

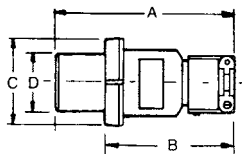
## CSA Certification Only

Dead Front Interlocked Construction; No External Seals Required.

### ID2SR Receptacles



### Dimensions of ACP Plugs



Max. Amp	No. Poles	Dimensions in Inches/Millimeters			
		A	B	C	D
30	2,3,4	6.00/152.4	4.75/120.6	3.13/79.5	1.86/47.2
60	2,3	7.81/198.3	4.94/125.4	3.50/88.9	2.23/56.6
60	4	7.81/198.3	4.94/125.4	3.81/96.7	2.55/64.7
100	2,3	10.50/266.7	6.63/168.4	4.00/101.6	2.47/62.7
100	4	10.50/266.7	6.63/168.4	4.25/107.9	2.72/69.0

 CSA Certification only.

# ECC Factory Sealed 20 Amp Portable Cord Connector

## Explosionproof, Dust-Ignitionproof

ECC Connects Portable Cord to Explosionproof Fixed Enclosure.

Class I, Division 1 and 2, Groups B $\star$ , C, D  
 Class II, Division 1 and 2, Group G  
 Class III  
 NEMA 7BCD, 9G  
 Watertight

### Applications

- Connects portable cord to explosionproof fixed enclosure.

### Features

- For use with No. 18 thru 12 AWG 3-Conductor Type S or SO cord.
- Furnished with 90 °C wire leads.
- 12" leads of #12 stranded wire are furnished for connection to wiring or equipment within the explosion-proof housing.



### Standard Materials

- Copperfree (4/10 of 1% max.) aluminum.

### Standard Finishes

- Epoxy powder coat.

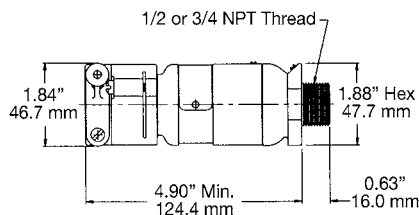
### Certifications and Compliances

- CSA Standard: C22.2 No. 25, C22.2 No. 30, C22.2 No. 182.1
- CSA Certified: 038644, 087428

### 20 Amp, 480 Vac or Vdc

Nipple Size	Cord Dia.	UL Listed	Catalog Number	
			CSA Certified	
1/2	.250 to .375	ECC503RH	ECC503RH-C	
1/2	.375 to .500	ECC505RH	ECC505RH-C	
1/2	.500 to .625	ECC506RH	ECC506RH-C	
3/4	.250 to .375	ECC753RH	ECC753RH-C	
3/4	.375 to .500	ECC755RH	ECC755RH-C	
3/4	.500 to .625	ECC756RH	ECC756RH-C	

### Dimensions



◆ Shaded area indicated items suitable for Class I, Group B and Class II, Group E in addition to Class I, Groups C and D and Class II, Groups F,G.

# Portable Power Carts for Ordinary and Hazardous Locations

## Custom Design

Portable Power Carts are made to order per your specifications. Contact your local Appleton representative to create your design, receive a quotation and for availability information.

### Application

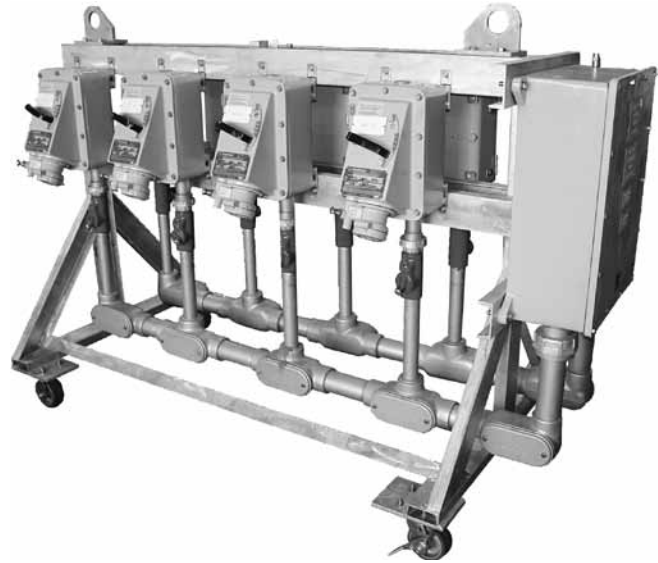
- Provides a means of portable power indoors or outdoors in hazardous or non-hazardous locations.

### Features

- Designed to your specification.
- Wide choice of equipment:
  - Panelboards
  - Control stations
  - Plugs and receptacles
  - Junction and terminal boxes
- UL Listed and CSA Certified devices and fittings.
- Easy glide, lockable casters provide easy transportation.

### Standard Materials/Finishes

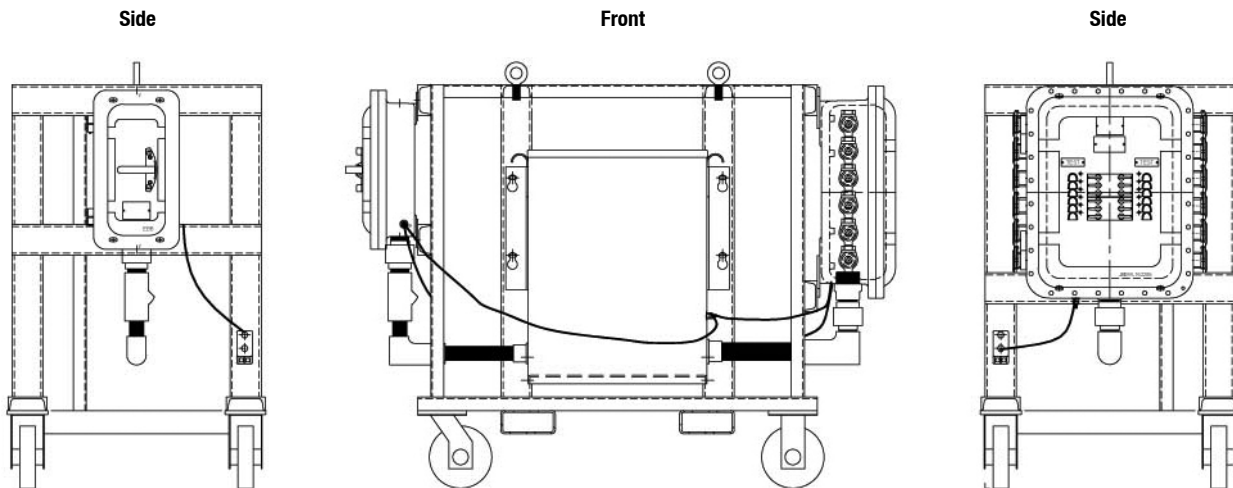
- Structure: steel/galvanized or aluminum/natural



Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

### Illustrated Example of Custom Designed Products



# A.T.X.<sup>®</sup> PRE Series 16 Amp Plugs and Sockets

## Increased Safety

Zone 1 and 2 - 21 and 22  
 Ⓢ II 2 GD  
 ATEX / IECEx  
 IP66 - IK09/10

### Applications

- Plugs and receptacles are used with portable or stationery electrical equipment such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor generators
  - Air conditioning equipment
  - Compressors
  - Pumps
- For use in corrosive atmospheres and installations in Zone 1 and 2 and 21 and 22 of the oil and gas industry; such as:
  - Refineries
  - Chemical and petrochemical plants
  - Pipelines
  - Loading docks
  - Onshore and offshore drilling platforms

### Features

- Plug and socket system is designed with a safe disconnect mechanism to insure maximum hazardous location protection:
  - The contact separation is in a flameproof chamber
  - The automatic electrical disconnection of each phase is contained in a second flameproof chamber
- Short circuit protection is 20 kA, while normal reference is 10 kA.
- Different voltages are color coded for easy identification.
- The receptacles are keyed to accept only ATX plugs (other plugs can not be inserted).
- ATX plugs can be used in non-hazardous IEC 309 sockets.
- Operating temperature of -40 °F/-40 °C to +131 °F/+55 °C

### Standard Materials

- Wall Socket for 2P - 2P+E - 3P: high impact resistance polycarbonate
- Wall Socket for 3P+E - 3P+N+E: high impact resistance fiberglass reinforced polyester
- Plug, mobile socket and flush socket: polyamide

### Certifications and Compliances

- Certification Type PCX, PCX/EN
- Gas: Zones 1 and 2
  - Conforming to ATEX 94/9/CE: CE 0081 Ⓢ II 2 G
  - ATEX/IEC Protection: Ex de IIC
  - T6 for  $T_a \leq +104 \text{ °C}/+40 \text{ °C}$  and T5 for  $T_a \leq +131 \text{ °F}/+55 \text{ °C}$
  - Ambient Temperature:  $-40 \text{ °F}/-40 \text{ °C} \leq T_a \leq +131 \text{ °F}/+55 \text{ °C}$
- Dust: Zones 21 and 22
  - Conforming to ATEX 94/9/CE: CE 0081 Ⓢ II 2 D
  - ATEX/IEC Protection: Ex tD A21
  - Surface Temperature: T154 °F/68 °C
  - Ambient Temperature:  $-40 \text{ °F}/-40 \text{ °C} \leq T_a \leq +131 \text{ °F}/+55 \text{ °C}$
- CE Declaration of Conformity: 50228, 5C214
- ATEX Certificate: LCIE 02 ATEX 6068, LCIE 02 ATEX 0001U
- IECEx Certificate: IECEx LCI 04.0014, IECEx LCI 04.0012
- Other Certifications: GOST
- Ingress Protection (solid and liquid): IP66
- Impact Resistance (shock): IK10 (Polyester) and IK09 (Polyamide)
- Ex Standards: EN/IEC 60079-0; 60079-1, 60079-7; 61241-0, 61241-1
- Product Standards: EN/IEC 60309-1, 60309-2
- Other Standards: EN/IEC 60529 (IP), 62262 (IK)



Plug



Wall Mounting Socket



Mobile Socket



Flush Socket

### Technical Data

Breaking Capacity	
AC 3	4 kW – 220 V
	4.3 kW – 240 V
	7.5 kW – 380 V
	8.2 kW – 415 V
ICC	20 kA

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

# A.T.X.<sup>®</sup> PRE Series 16 Amp Plugs and Sockets

Increased Safety

Zone 1 and 2 - 21 and 22  
 II 2 GD  
 ATEX / IECEx  
 IP66 - IK09/10



**Wall Mounting Socket**

- Three M20 threaded entries (one on the top and two on the bottom).
- Supplied with one M20 cable gland (Ø 0.26 to Ø 0.57" / Ø 6.5 to Ø 14.5 mm) and two M20 blanking plugs.
- Terminal capacity 0.003 x 0.006 in<sup>2</sup> / 2 x 4 mm<sup>2</sup>. Can be through-wired.
- Fitted with three linked earth terminals.



**Plug**

- One PG16 integrated cable gland (Ø 0.26 to Ø 0.57" / Ø 6.5 to Ø 14.5 mm).
- Terminal capacity 0.004 in<sup>2</sup> / 2.5 mm<sup>2</sup>.



**Mobile Socket**

- One PG16 integrated cable gland (Ø 0.26 to Ø 0.57" / Ø 6.5 to Ø 14.5 mm).
- Terminal capacity 0.003 x 0.006 in<sup>2</sup> / 2 x 4 mm<sup>2</sup>.



**Flush Socket**

- Terminal capacity 0.003 x 0.006 in<sup>2</sup> / 2 x 4 mm<sup>2</sup>.

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

## Catalog Numbering Guide

**PRE**  
 |  
 Series:  
 PRE - PRE Series  
 Zone 1, 2, 21 and 22  
 ATEX / IEC

**2**  
 |  
 Pin Configuration:  
 2 - 2P  
 3 - 2P+E  
 4 - 3P+E  
 5 - 3P+N+E  
 6 - 3P

**16**  
 |  
 Amps:  
 16 - 16A

**R**  
 |  
 Equipment:  
 P - Plug  
 R - Receptacle  
 (Wall Mounting)  
 M - Mobile Socket  
 F - Flush Socket

**P**  
 |  
 Voltage:  
 P - 20 - 25 Vac  
 50/60 Hz  
 W1 - 20 - 50 Vdc  
 W - 40 - 50 Vac  
 50/60 Hz  
 Y - 100 - 130 Vac  
 50/60 Hz  
 B - 200 - 250 Vac  
 50/60 Hz  
 R - 380 - 415 Vac  
 50/60 Hz  
 N - 480 - 500 Vac  
 50/60 Hz  
 G - 50 - 500 Vac 300  
 to 500 Hz

### ELV: Extra Low Voltage

Purple	White	White
20/25 Vac	20/50 Vdc	40/50 Vac

























### LV: Low Voltage

Yellow	Blue	Red	Black	Green
100/130 Vac	200/250 Vac	380/415 Vac	480/500 Vac	50/500 Vac (300 to 500 Hz)

# A.T.X.<sup>®</sup> PRE Series 16 Amp Extra Low Voltage and Low Voltage Plugs and Sockets

## Increased Safety

Zone 1 and 2 - 21 and 22  
 II 2 GD  
 ATEX / IECEx  
 IP66 - IK09/10

Description	Pin Configuration	Weight (lb/kg)	Volume (in <sup>3</sup> /dm <sup>3</sup> )	Catalog Number
<b>Extra Low Voltage: ELV</b>				
<b>20/25 Vac 50/60 Hz — Purple</b>				
Wall Socket		1.3/0.6	231.89/3.8	PRE216RP
Plug		0.4/0.2	361.6/0.6	PRE216PP
Mobile Socket	 polarization tab	0.9/0.4	79.33/1.3	PRE216MP
Flush Socket	 polarization tab	0.4/0.2	79.33/1.3	PRE216FP
Wall Socket		1.3/0.6	231.89/3.8	PRE316RP
Plug	 10h	0.4/0.2	36.61/0.6	PRE316PP
Mobile Socket	 10h	0.9/0.4	79.33/1.3	PRE316MP
Flush Socket	 10h	0.4/0.2	79.33/1.3	PRE316FP
Wall Socket		1.3/0.6	231.89/3.8	PRE616RP
Plug		0.4/0.2	36.61/0.6	PRE616PP
Mobile Socket	 polarization tab	0.9/0.4	79.33/1.3	PRE616MP
Flush Socket	 polarization tab	0.4/0.2	79.33/1.3	PRE616FP
<b>20/50 Vdc — White</b>				
Wall Socket		1.3/0.6	231.89/3.8	PRE216RW1
Plug		0.4/0.2	36.61/0.6	PRE216PW1
Mobile Socket	 polarization tab 10h	0.9/0.4	79.33/1.3	PRE216MW1
Flush Socket	 polarization tab 10h	0.4/0.2	79.33/1.3	PRE216FW1
<b>40/50 Vac 50/60 Hz — White</b>				
Wall Socket		1.3/0.6	231.89/3.8	PRE216RW
Plug		0.4/0.2	36.61/0.6	PRE216PW
Mobile Socket	 polarization tab	0.9/0.4	79.33/1.3	PRE216MW
Flush Socket	 polarization tab	0.4/0.2	79.33/1.3	PRE216FW
Wall Socket		1.3/0.6	231.89/3.8	PRE616RW
Plug	 auxiliary pin 12h	0.4/0.2	36.61/0.6	PRE616PW
Mobile Socket	 polarization tab	0.9/0.4	79.33/1.3	PRE616MW
Flush Socket	 polarization tab	0.4/0.2	79.33/1.3	PRE616FW
<b>Low Voltage: LV</b>				
<b>100/130 Vac 50/60 Hz — Yellow</b>				
Wall Socket		1.3/0.6	231.89/3.8	PRE316RY
Plug	 4h	0.4/0.2	36.61/0.6	PRE316PY
Mobile Socket	 L/+	0.9/0.4	79.33/1.3	PRE316MY
Flush Socket	 2P+E	0.4/0.2	79.33/1.3	PRE316FY
<b>200/250 Vac 50/60 Hz — Blue</b>				
Wall Socket		1.3/0.6	231.89/3.8	PRE316RB
Plug	 6h	0.4/0.2	36.61/0.6	PRE316PB
Mobile Socket	 L/+	0.9/0.4	79.33/1.3	PRE316MB
Flush Socket	 2P+E	0.4/0.2	79.33/1.3	PRE316FB

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

# A.T.X.<sup>®</sup> PRE Series 16 Amp Low Voltage Plugs and Sockets and Accessories

Increased Safety

Zone 1 and 2 - 21 and 22  
 II 2 GD  
 ATEX / IECEx  
 IP66 - IK09/10

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

Description	Pin Configuration	Weight (lb/kg)	Volume (in <sup>3</sup> /dm <sup>3</sup> )	Catalog Number
<b>Low Voltage: LV</b>				
<b>200/250 Vac 50/60 Hz — Blue</b>				
Wall Socket		3.3/1.5	286.81/4.7	PRE416RB
Plug		1.3/0.6	361.6/0.6	PRE416PB
Mobile Socket		1.3/0.6	244.09/4.0	PRE416MB
Flush Socket		0.4/0.2	79.33/1.3	PRE416FB
Wall Socket			3.5/1.6	286.81/4.7
Plug	0.7/0.3		79.33/1.3	PRE516PB
Mobile Socket	1.3/0.6		244.09/4.0	PRE516MB
Flush Socket	0.4/0.2		79.33/1.3	PRE516FB
	(1) 120/208 V - 144/250 Vac 50/60 Hz			
<b>380/415 Vac 50/60 Hz — Red</b>				
Wall Socket		3.3/1.5	286.81/4.7	PRE416RR
Plug		0.4/0.2	361.6/0.6	PRE416PR
Mobile Socket		1.3/0.6	244.09/4.0	PRE416MR
Flush Socket		0.7/0.3	79.33/1.3	PRE416FR
Wall Socket			3.5/1.6	286.81/4.7
Plug	0.7/0.3		79.33/1.3	PRE516PR
Mobile Socket	1.3/0.6		244.09/4.0	PRE516MR
Flush Socket	0.7/0.3		79.33/1.3	PRE516FR
	(2) 200/346 V - 240/415 Vac 50/60 Hz			
<b>480/500 Vac 50/60 Hz — Black</b>				
Wall Socket		3.3/1.5	286.81/4.7	PRE416RN
Plug		0.4/0.2	361.6/0.6	PRE416PN
Mobile Socket		1.3/0.6	244.09/4.0	PRE416MN
Flush Socket		0.7/0.3	79.33/1.3	PRE416FN
Wall Socket			3.5/1.6	286.81/4.7
Plug	0.4/0.2		361.6/0.6	PRE516PG
Mobile Socket	1.3/0.6		244.09/4.0	PRE516MG
Flush Socket	0.7/0.3		79.33/1.3	PRE516FG

## Accessories

Description	Catalog Number
<p>M5 earth stud with black neoprene sealing washer and green/yellow earth conductor, length 11.8"/300 mm</p>	PREESTM20
<p>M20 earth continuity adaptor with black neoprene sealing washer and green/yellow earth conductor, length 11.8"/300 mm</p>	PREECAM20



# A.T.X.<sup>®</sup> PRE Series 16 Amp Plug and Socket Dimensions

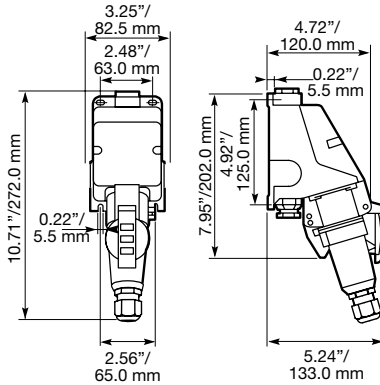
## Increased Safety

Zone 1 and 2 - 21 and 22  
 II 2 GD  
 ATEX / IECEx  
 IP66 - IK09/10

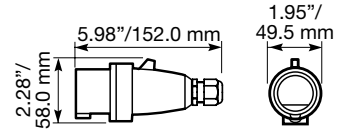
### Dimensions

#### 16A – 2P – 2P+E – 3P Versions

##### Wall Mounting Sockets

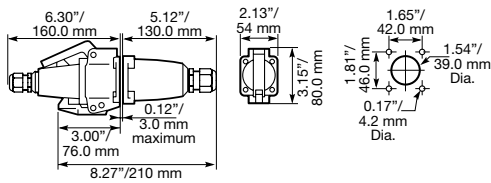


##### Plugs

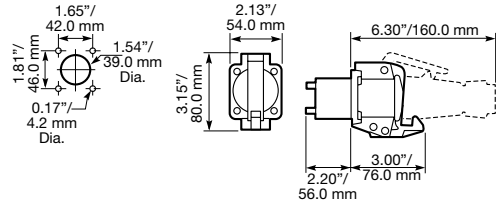


##### Mobile Sockets

Can be mounted on panel - 0.12"/3.0 mm thickness maximum

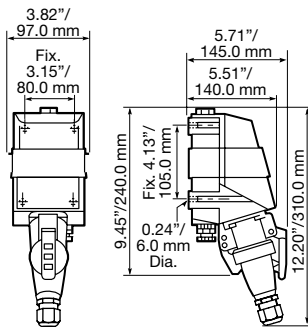


##### Flush Sockets

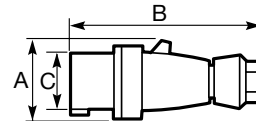


#### 16A – 3P+E – 3P+N+E Versions

##### Wall Mounting Sockets



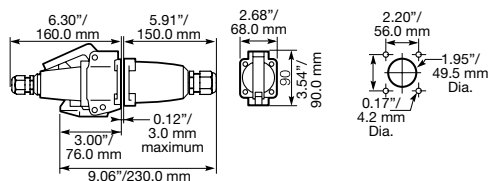
##### Plugs



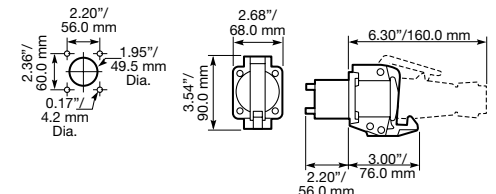
	Dimensions in Inches/Millimeters		
	A	B	C
3 P + E	2.60/66.0	6.06/154.0	2.19/55.5
3 P + N + E	2.87/73.0	6.54/166.0	2.44/62.0

##### Mobile Sockets

Can be mounted on panel - 0.12"/3.0 mm thickness maximum



##### Flush Sockets



# A.T.X.<sup>®</sup> PRE Series 32 Amp Plugs and Sockets

## Increased Safety

Zone 1 and 2 - 21 and 22

⊕ II 2 GD

ATEX / IECEx

IP66 - IK10

### Applications

- Plugs and sockets are used with portable or stationary electrical equipment such as:
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor generators
  - Air conditioning equipment
  - Compressors
  - Pumps
- For use in corrosive atmospheres and installations in Zone 1 and 2 and 21 and 22 of the oil and gas industry, such as:
  - Refineries
  - Chemical and petrochemical plants
  - Pipelines
  - Loading docks
  - Onshore and offshore drilling platforms

### Features

- Plug and socket system is designed with a safe disconnect mechanism to insure maximum hazardous location protection:
  - The contact separation is in a flameproof chamber
  - The automatic electrical disconnection of each phase is contained in a second flameproof chamber
- Short circuit protection is 20 kA, while normal reference is 10 kA.
- Different voltages are color coded for easy identification.
- The sockets are keyed to accept only ATX plugs (other plugs can not be inserted).
- ATX plugs can be used in non-hazardous sockets.

### Standard Materials

- Wall Socket: high impact resistance fiberglass reinforced polyester
- Plug, mobile socket and flush socket: polyamide

### Certifications and Compliances

- Certification Type PCX, PCX/EN
- Gas: Zones 1 and 2
  - Conforming to ATEX 94/9/CE: CE 0081 ⊕ II 2 G
  - ATEX/IEC Protection: Ex de IIC
  - T-Rating: T6 for  $T_a \leq +104$  °F/ $+40$  °C and T5 for  $T_a \leq +131$  °F/ $+55$  °C
  - Ambient Temperature:  $-40$  °F/ $-40$  °C  $\leq T_a \leq +131$  °F/ $+55$  °C
  - Impact Resistance (shock): IK10 (Polyester) and IK09 (Polyamide)
- Dust: Zones 21 and 22
  - Conforming to ATEX 94/9/CE: CE 0081 ⊕ II 2 D
  - ATEX/IEC Protection: Ex tD A21
  - Surface Temperature: T154 °F/T68 °C
  - Ambient Temperature:  $-40$  °F/ $-40$  °C  $\leq T_a \leq +131$  °F/ $+55$  °C
  - Impact Resistance (shock): IK10
- CE Declaration of Conformity: 50228, 5C214
- ATEX Certificate: LCIE 02 ATEX 6068, LCIE 02 ATEX 0001U
- IECEX Certificate: IECEX LCI 04.0014, IECEX LCI 04.0012
- Other Certifications: GOST
- Ingress Protection (solid and liquid): IP66
- Ex Standards: EN/IEC 60079-0; 60079-1, 60079-7; 61241-0, 61241-1
- Product Standards: EN/IEC 60309-1, 60309-2
- Other Standards: EN/IEC 60529 (IP), 62262 (IK)

LV: Low Voltage



Plug



Wall Mounting Socket



Mobile Socket



Flush Socket

### Technical Data

Breaking Capacity	
AC 1	32 A – 500 V
	11 kW – 220 V
AC 22	12 kW – 240 V
	19 kW – 380 V
	20.7 kW – 415 V
ICC	20 kA

# A.T.X.<sup>®</sup> PRE Series 32 Amp Plugs and Sockets

## Increased Safety

Zone 1 and 2 - 21 and 22  
 II 2 GD  
 ATEX / IECEx  
 IP66 - IK10



**Wall Mounting Socket**

- Three M25 threaded entries (one on the top and two on the bottom).
- Supplied with one M25 cable gland (Ø 0.31 to Ø 0.73" / Ø 8 to Ø 18.5 mm) and two M25 blanking plugs.
- Terminal capacity 0.003 x 0.009 in<sup>2</sup> / 2 x 6 mm<sup>2</sup>.
- Fitted with three linked earth terminals.



**Plug**

- One PG21 integrated cable gland. (Ø 0.31 to Ø 0.73" / Ø 8 to Ø 18.5 mm) for 3P+N+E versions.
- Terminal capacity 0.009 in<sup>2</sup> / 6 mm<sup>2</sup>.



**Mobile Socket**

- One PG21 integrated cable gland. (Ø 0.31 to Ø 0.73" / Ø 8 to Ø 18.5 mm) for 2P+E and 3P+E versions.
- One PG29 integrated cable gland. (Ø 0.70 to Ø 0.98" / Ø 18 to Ø 25 mm) for 3P+N+E versions.
- Terminal capacity 0.003 x 0.009 in<sup>2</sup> / 2 x 6 mm<sup>2</sup>.



**Flush Socket**

- Terminal capacity 0.003 x 0.009 in<sup>2</sup> / 2 x 6 mm<sup>2</sup>.

### Catalog Numbering Guide

**PRE**  
 |  
 Series:  
 PRE - PRE Series  
 Zone 1, 2, 21 and 22  
 ATEX / IEC

**3**  
 |  
 Pin Configuration:  
 3 - 2P+E  
 4 - 3P+E  
 5 - 3P+N+E

**32**  
 |  
 Amps:  
 32 - 32A

**R**  
 |  
 Equipment:  
 P - Plug  
 R - Receptacle  
 (Wall Mounting)  
 M - Mobile Socket  
 F - Flush Socket

**P**  
 |  
 Voltage:  
 Y - 100 - 130 Vac  
 50/60 Hz  
 B - 200 - 250 Vac  
 50/60 Hz  
 R - 380 - 415 Vac  
 50/60 Hz  
 N - 480 - 500 Vac  
 50/60 Hz

### LV: Low Voltage

Yellow	Blue	Red	Black
100/130 Vac	200/250 Vac	380/415 Vac	480/500 Vac

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

# A.T.X.<sup>®</sup> PRE Series 32 Amp Low Voltage Plugs and Sockets

Increased Safety

Zone 1 and 2 - 21 and 22


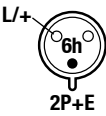
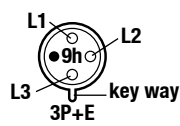
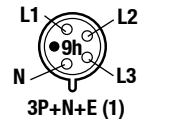
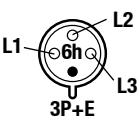
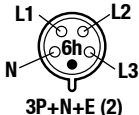

II 2 GD

ATEX / IECEx

IP66 - IK10

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

Description	Pin Configuration	Weight (lb/kg)	Volume (in <sup>3</sup> /dm <sup>3</sup> )	Catalog Number	
<b>100/130 Vac 50/60 Hz — Yellow</b>					
Wall Socket		4.19/1.9	427.17/7.0	<b>PRE332RY</b>	
Plug		1.10/0.5	244.09/4.0	<b>PRE332PY</b>	
Mobile Socket		L/+	1.76/0.8	195.28/3.2	<b>PRE332MY</b>
Flush Socket		2P+E	1.32/0.6	164.76/2.7	<b>PRE332FY</b>
<b>200/250 Vac 50/60 Hz — Blue</b>					
Wall Socket		4.19/1.9	427.17/7.0	<b>PRE332RB</b>	
Plug		L/+	1.10/0.5	244.09/4.0	<b>PRE332PB</b>
Mobile Socket		2P+E	1.76/0.8	195.28/3.2	<b>PRE332MB</b>
Flush Socket		2P+E	1.32/0.6	164.76/2.7	<b>PRE332FB</b>
Wall Socket		4.19/1.9	427.17/7.0	<b>PRE432RB</b>	
Plug		L1, L2, L3	1.10/0.5	244.09/4.0	<b>PRE432PB</b>
Mobile Socket		3P+E	1.76/0.8	195.28/3.2	<b>PRE432MB</b>
Flush Socket		3P+E	1.32/0.6	164.76/2.7	<b>PRE432FB</b>
Wall Socket		4.19/1.9	427.17/7.0	<b>PRE532RB</b>	
Plug		L1, L2, L3, N	1.10/0.5	244.09/4.0	<b>PRE532PB</b>
Mobile Socket		3P+N+E (1)	2.20/1.0	244.09/4.0	<b>PRE532MB</b>
Flush Socket		(1) 120/208 V - 144/250 Vac 50/60 Hz	1.32/0.6	164.76/2.7	<b>PRE532FB</b>
<b>380/415 Vac 50/60 Hz — Red</b>					
Wall Socket		4.41/2.0	427.17/7.0	<b>PRE432RR</b>	
Plug		L1, L2, L3	0.88/0.4	244.09/4.0	<b>PRE432PR</b>
Mobile Socket		3P+E	1.76/0.8	195.28/3.2	<b>PRE432MR</b>
Flush Socket		3P+E	1.32/0.6	164.76/2.7	<b>PRE432FR</b>
Wall Socket		4.41/2.0	427.17/7.0	<b>PRE532RR</b>	
Plug		L1, L2, L3, N	1.10/0.5	244.09/4.0	<b>PRE532PR</b>
Mobile Socket		3P+N+E (2)	2.20/1.0	244.09/4.0	<b>PRE532MR</b>
Flush Socket		(2) 200/346 V - 240/415 Vac 50/60 Hz	1.32/0.6	164.76/2.7	<b>PRE532FR</b>
<b>480/500 Vac 50/60 Hz — Black</b>					
Wall Socket		4.41/2.0	427.17/7.0	<b>PRE432RN</b>	
Plug		7h	0.88/0.4	244.09/4.0	<b>PRE432PN</b>
Mobile Socket		3P+E	2.20/1.0	244.09/4.0	<b>PRE432MN</b>
Flush Socket		3P+E	1.32/0.6	164.76/2.7	<b>PRE432FN</b>

# A.T.X.<sup>®</sup> PRE Series 32 Amp Low Voltage Plug and Socket Accessories and Dimensions

## Increased Safety

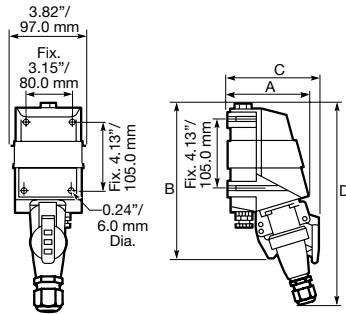
### Accessories

	Description	Catalog Number
	M5 earth stud with black neoprene sealing washer and green/yellow earth conductor, length 11.8"/300 mm	PREESTM25
	M20 earth continuity adaptor with black neoprene sealing washer and green/yellow earth conductor, length 11.8"/300 mm	PREECAM25

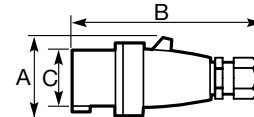
### Dimensions

#### 32A — 2P+E — 3P+E — 3P+N+E Versions

#### Wall Mounting Sockets



#### Plugs

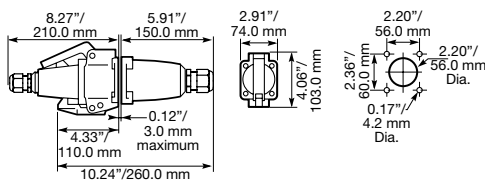


	Dimensions in Inches/Millimeters			
	A	B	C	D
2 P + E	5.51/140.0	10.83/275.0	6.10/155.0	14.67/370.0
3 P + E	5.51/140.0	10.83/275.0	6.10/155.0	14.67/370.0
3 P + N + E	5.51/140.0	10.83/275.0	6.50/165.0	14.76/375.0

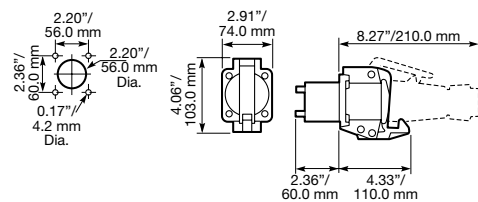
	Dimensions in Inches/Millimeters		
	A	B	C
2 P + T	3.15/80.0	6.69/170.0	2.64/67.0
3 P + T	3.15/80.0	6.69/170.0	2.64/67.0
3 P + N + T	3.15/80.0	7.68/195.0	2.91/74.0

#### Mobile Sockets

Can be mounted on panel - 0.12"/3.0 mm thickness maximum



#### Flush Sockets



# A.T.X.<sup>®</sup> PRE Series 63 Amp Plugs and Sockets

## Increased Safety

Zone 1 and 2 - 21 and 22  
 Ⓢ II 2 GD  
 ATEX / IEC  
 IP66 – IK10

### Applications

- Plugs and sockets are used with stationary or portable electrically operated devices such as:
  - Welding devices
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor generator sets
  - Air conditionings
  - Compressors
  - Pumps
- For use in corrosive atmospheres and installations in Zones 1, and 2 and 21 and 22 of oil and gas industry, such as
  - Refineries
  - Chemical and petrochemical plants
  - Pipelines
  - Onshore and offshore drilling platforms

### Features

- Positive polarization: only ATX plugs of same style, number of poles and ampere rating may be used with these sockets.
- Interlocking 3-pole or 4-pole Ex de disconnecting on-load switch, with auxiliary early break contact (capacity 0.004 in<sup>2</sup>/ 2.5 mm<sup>2</sup> max).
- Plug is mechanically locked in socket when switch is ON.
- Switch operating handle can be padlocked in OFF position (max 4 padlocks).
- Plug cannot be inserted or removed unless switch is in OFF position.

### Standard Materials

- Socket: high impact resistance fiberglass reinforced polyester.
- Flap cover and plug: polyamide

### Certifications and Comiances

- Certification Type PC63X
- Gas: Zones 1 and 2
  - Conforming to ATEX 94/9/CE: CE 0081 Ⓢ II 2 G
  - ATEX/IEC Protection: Ex de IIC
  - T-Rating: T6 for Ta ≤ +104 °F/+40°C and 5 for +40°C ≤ Ta ≤ +131 °F/+55 °C
- Dust: Zones 21 and 22
  - Conforming to ATEX 94/9/CE: CE 0081 Ⓢ II 2 D
  - ATEX/IEC Protection: Ex tD A21
  - Surface Temperature: T194 °F/T90 °C
- Service Temperature: -22 °F/-30 °C to +131 °F/+55 °C
- CE Declaration of Conformity: 50208
- ATEX Certificate: LCIE 02 ATEX 6004
- IEC Certificate: LCIE Ex 99.004
- Other Certifications: GOST
- Ingress Protection (solid and liquid): IP66
- Impact Resistance (shock): IK10
- Ex Standards: EN/IEC 60079-0; 60079-1, 60079-7; 61241-0, 61241-1
- Product Standards: EN/IEC 60309-1, 60309-2
- Other Standards: EN/IEC 60529 (IP), 62262 (IK)



Plug

Wall Mounting Socket



Wall Mounting Socket Through-Wired

63 Amps		
<b>Main Contacts</b>		
Rated Insulation Voltage	690 Vac	
Rated Operating Voltage	690 Vac	
Rated Operating Current	63 Amp	
Rated Surge Voltage	6 KV	
<b>Switching Capacity</b>		
AC 21 A / AC 22 A	63 Amp	230 Volt to 690 Volt
	15 kW	230 Volt
AC 23 A	22 kW	400 Volt
	30 kW	500 Volt
	18.5 kW	690 Volt
	11 kW	230 Volt
AC 3	18.5 kW	400 Volt
	22 kW	500 Volt
	15 KW	690 Volt
DC 21	-	
DC 22	-	
DC 23	-	
<b>Auxiliary Contacts</b>		
Rated Insulation Voltage	400 Volt	
Rated Operating Voltage	400 Volt	
Rated Operating Current	10 Amp	
Switching Capacity: AC 15	6 Amp	230 Volt
	4 Amp	400 Volt
<b>Others</b>		
Termination (flexible/solid)	0.002 in <sup>2</sup> / 35 mm <sup>2</sup>	

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

# A.T.X.<sup>®</sup> PRE Series 63 Amp Plugs and Sockets

## Increased Safety

Zone 1 and 2 - 21 and 22  
 II 2 GD  
 ATEX / IEC  
 IP66 - IK10



**Wall Mounting Socket**



**Plug**

- Standard versions:
  - Supplied with one M50 cable gland for unarmored cable Ø 1.10 to Ø 1.65" / Ø 28 to Ø 42 mm, and one M25 blanking plug.
  - Terminal capacity 0.002 x 0.054 in<sup>2</sup> / 1 x 35 mm<sup>2</sup>.
- Through-wired versions:
  - Supplied with two M50 cable glands for unarmored cable Ø 1.10 to Ø 1.65" / Ø 28 to Ø 42 mm, and one M25 blanking plug.
  - Terminal capacity 0.003 x 0.054 in<sup>2</sup> / 2 x 35 mm<sup>2</sup>.
- One integrated cable entry for unarmored flexible cable  
 Ø 0.69 to Ø 1.14" / Ø 17.5 to Ø 29 mm for 3P + E versions.  
 Ø 0.69 to Ø 1.26" / Ø 17.5 to Ø 32 mm for 3P + N + E versions.
- Terminals capacity 0.025 in<sup>2</sup> / 16 mm<sup>2</sup>.

### Catalog Numbering Guide

<b>PRE</b>   Series: PRE - PRE Series Zone 1, 2, 21 and 22 ATEX / IEC Certified	<b>4</b>   Pin Configuration: 4 - 3P+E 5 - 3P+N+E	<b>63</b>   Amps: 63 - 63A	<b>R</b>   Equipment: P - Plug R - Receptacle (Wall Mounting)	<b>B</b>   Voltage: B - 200 - 250 Vac 50/60 Hz R - 380 - 415 Vac 50/60 Hz N - 480 - 500 Vac 50/60 Hz R1 - 440 - 460 Vac 60 Hz N1 - 600 - 690 Vac 50/60 Hz	<b>A</b>   Cable Type: A - Armored U - Unarmored	<b>3</b>   Cable Entry Size: * 3 - M32 4 - M40 5 - M50 6 - M63	<b>S</b>   Options: S - 316L Stainless Steel T - Through-wired
--	---	-------------------------------------	--	---	--	--	--

### LV: Low Voltage

Blue	Red	Black	Red 1	Black 1
200/250 Vac	380/415 Vac	480/500 Vac	440/460 Vac	600/690 Vac

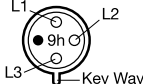
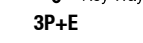

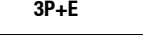
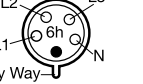
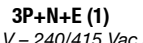
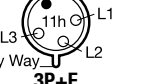
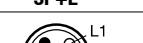
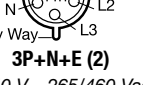
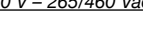

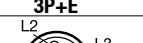
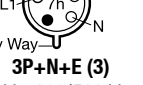
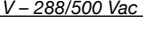

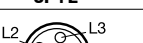
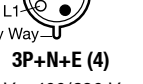
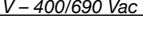
\* With one M5 plugged entry.

# A.T.X.<sup>®</sup> PRE Series 63 Amp Plugs and Sockets

Increased Safety

Zone 1 and 2 - 21 and 22  
 II 2 GD  
 ATEX / IEC  
 IP66 - IK10

## Standard Versions

Description	Pin Configuration	Weight (lb/kg)	Volume (in <sup>3</sup> /dm <sup>3</sup> )	Catalog Number
<b>200/250 Vac 50/60 Hz — Blue</b>				
Wall Socket		17.64/8.0	1586.62/26.0	<b>PRE463RBU5</b>
Plug	 <b>3P+E</b>	2.20/1.0	427.17/7.0	<b>PRE463PB</b>
<b>380/415 Vac 50/60 Hz — Red</b>				
Wall Socket		17.64/8.0	1586.62/26.0	<b>PRE463RRU5</b>
Plug	 <b>3P+E</b>	2.20/1.0	427.17/7.0	<b>PRE463PR</b>
Wall Socket		17.64/8.0	1586.62/26.0	<b>PRE563RRU5</b>
Plug	 <b>3P+N+E (1)</b> <i>(1) 200/346 V - 240/415 Vac 50/60 Hz</i>	2.20/1.0	427.17/7.0	<b>PRE563PR</b>
<b>440/460 Vac 60 Hz — Red</b>				
Wall Socket		17.64/8.0	1586.62/26.0	<b>PRE463RR1U5</b>
Plug	 <b>3P+E</b>	2.20/1.0	427.17/7.0	<b>PRE463PR1</b>
Wall Socket		17.64/8.0	1586.62/26.0	<b>PRE563RR1U5</b>
Plug	 <b>3P+N+E (2)</b> <i>(2) 250/440 V - 265/460 Vac 60 Hz</i>	2.20/1.0	427.17/7.0	<b>PRE563PR1</b>
<b>480/500 Vac 50/60 Hz — Black</b>				
Wall Socket		17.64/8.0	1586.62/26.0	<b>PRE463RNU5</b>
Plug	 <b>3P+E</b>	2.20/1.0	427.17/7.0	<b>PRE463PN</b>
Wall Socket		17.64/8.0	1586.62/26.0	<b>PRE563RNU5</b>
Plug	 <b>3P+N+E (3)</b> <i>(3) 277/480 V - 288/500 Vac 50/60 Hz</i>	2.20/1.0	427.17/7.0	<b>PRE563PN</b>
<b>600/690 Vac 50/60 Hz — Black</b>				
Wall Socket		17.64/8.0	1586.62/26.0	<b>PRE463RN1U5</b>
Plug	 <b>3P+E</b>	2.20/1.0	427.17/7.0	<b>PRE463PN1</b>
Wall Socket		17.64/8.0	1586.62/26.0	<b>PRE563RN1U5</b>
Plug	 <b>3P+N+E (4)</b> <i>(4) 347/600 V - 400/690 Vac 50/60 Hz</i>	2.20/1.0	427.17/7.0	<b>PRE563PN1</b>

Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION



# A.T.X.<sup>®</sup> PRE Series 63 Amp Plugs and Sockets

Increased Safety

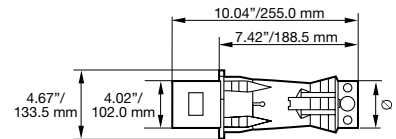
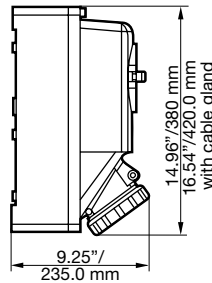
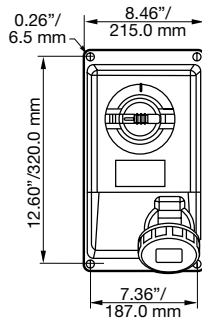
Zone 1 and 2 - 21 and 22  
 II 2 GD  
 ATEX / IEC  
 IP66 - IK10

## Through-wired Versions

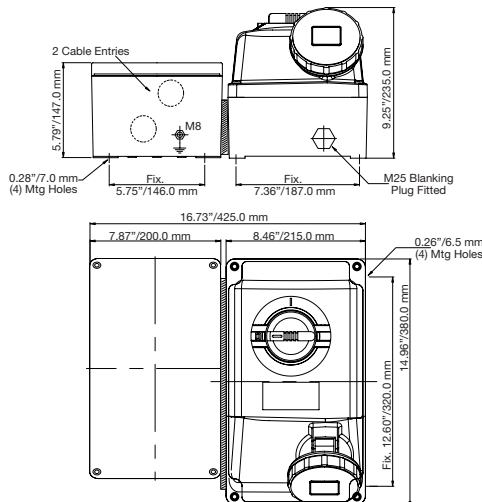
Description	Pin Configuration	Weight (lb/kg)	Volume (in <sup>3</sup> /dm <sup>3</sup> )	Catalog Number
<b>380/415 Vac 50/60 Hz — Red</b>				
Wall Socket		35.27/16.0	6712.61/110.0	<b>PRE463RRU5T</b>
Wall Socket		35.27/16.0	6712.61/110.0	<b>PRE563RRU5T</b>
<i>(1) 200/346 V – 240/415 Vac 50/60 Hz</i>				

## Dimensions

### Standard Version



### Through-Wired Version



Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

# A.T.X.<sup>®</sup> PRE Series 125 Amp Plugs and Sockets

## Increased Safety

Zone 1 and 2 – 21 and 22  
 Ⓢ II 2 GD  
 ATEX / IEC  
 IP66 – IK10

### Applications

- Plugs and sockets are used with stationary or portable electrically operated devices such as:
  - Welding devices
  - Lighting systems
  - Conveyors
  - Heaters
  - Motor generator sets
  - Air conditionings
  - Compressors
  - Pumps
- For use in corrosive atmospheres and installations in Zones 1, and 2 and 21 and 22 of oil and gas industry, such as
  - Refineries
  - Chemical and petrochemical plants
  - Pipelines
  - Onshore and offshore drilling platforms

### Features

- Positive polarization: only ATX plugs of same style, number of poles and ampere rating may be used with these sockets.
- Interlocked 3-pole or 4-pole Ex de disconnecting on-load switch, with auxiliary early break contact (capacity 0.004 in<sup>2</sup>/ 2.5 mm<sup>2</sup> max).
- Plug is mechanically locked in socket when switch is ON.
- Switch operating handle can be padlocked in OFF position (max 4 padlocks).
- Plug cannot be inserted or removed unless switch is in OFF position.

### Standard Materials

- Socket: 316L stainless steel
- Flap cover and plug: polyamide

### Certifications and Compliances

- Certification Type PC125X
- Gas: Zones 1 and 2
  - Conforming to ATEX 94/9/CE: CE 0081 Ⓢ II 2 G
  - ATEX/IEC Protection: Ex de IIC
  - T-Rating: T6 for Ta ≤ +104 °F/+40 °C and 5 for ≤ Ta ≤ +131 °F/55 °C
- Dust: Zones 21 and 22
  - Conforming to ATEX 94/9/CE: CE 0081 Ⓢ II 2 D
  - ATEX/IEC Protection: Ex tD A21
  - Surface Temperature: T194 °F/T90 °C
- Service Temperature: -22 °F/-30 °C to +131 °F/+55 °C
- CE Declaration of Conformity: 50218
- ATEX Certificate: LCIE 99 ATEX 6031
- IEC Certificate: LCIE Ex 99.017
- Other Certifications: GOST
- Ingress Protection (solid and liquid): IP66
- Impact Resistance (shock): IK10
- Ex Standards: EN/IEC 60079-0; 60079-1, 60079-7; 61241-0, 61241-1
- Product Standards: EN/IEC 60309-1, 60309-2
- Other Standards: EN/IEC 60529 (IP), 62262 (IK)



Plug



Wall Mounting Socket

160 Amps			
<b>Main Contacts</b>			
Rated Insulation Voltage	690 Vac		
Rated Operating Voltage	690 Vac		
Rated Operating Current	125 Amp		
Rated Surge Voltage	8 KV		
<b>Switching Capacity</b>			
AC 21 A / AC 22 A	125 Amp	400 Volt to 690 Volt	
AC 23 A	80 kW	400 Volt	
	110 kW	500 Volt	
	55 kW	690 Volt	
AC 3	90 kW	400 Volt	
	70 kW	500 Volt	
DC 21	125 Amp	220 Volt *	
	125 Amp	440 Volt *	
DC 22	125 Amp	220 Volt *	
	100 Amp	440 Volt *	
DC 23	125 Amp	220 Volt *	
	63 Amp	440 Volt *	
<b>Auxiliary Contacts</b>			
Rated Insulation Voltage	230 Volt		
Rated Operating Voltage	230 Volt		
Rated Operating Current	10 Amp		
Switching Capacity: AC 15	6 Amp	230 Volt	
<b>Others</b>			
Termination (flexible/solid)	0.007 in <sup>2</sup> / 120 mm <sup>2</sup>		

\* 2 contacts connected in series per pole.

# A.T.X.<sup>®</sup> PRE Series 125 Amp Plugs and Sockets

## Increased Safety

Zone 1 and 2 – 21 and 22  
 II 2 GD  
 ATEX / IEC  
 IP66 – IK10



**Wall Mounting Socket**

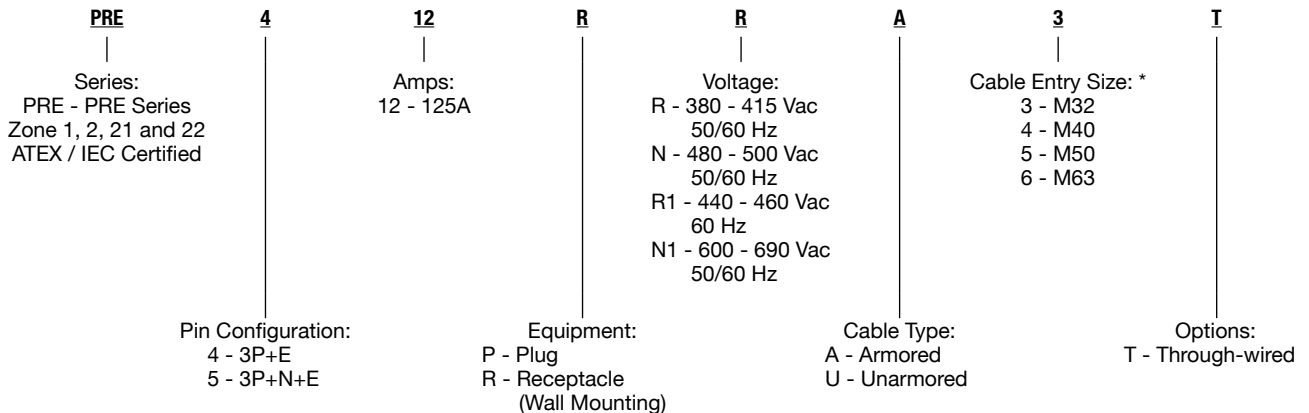
- One M63 cable gland for unarmored cable Ø 1.42 to Ø 1.73" / Ø 36 to Ø 44 mm, and one M25 blanking plug.
- Terminal capacity 0.186in<sup>2</sup>/120 mm<sup>2</sup>.



**Plug**

- One integrated cable entry for unarmored flexible cable Ø 1.18 to Ø 1.89" / Ø 30 to Ø 48 mm.
- Terminals capacity 0.078in<sup>2</sup>/50 mm<sup>2</sup>.

### Catalog Numbering Guide



### LV: Low Voltage

Red	Black	Red 1	Black 1
380/415 Vac	480/500 Vac	440/460 Vac	600/690 Vac

\* With one M25 plugged entry

# A.T.X.<sup>®</sup> PRE Series 125 Amp Plugs and Sockets

Increased Safety

Zone 1 and 2 – 21 and 22  
 II 2 GD  
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Plugs and Receptacles

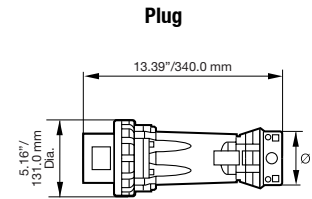
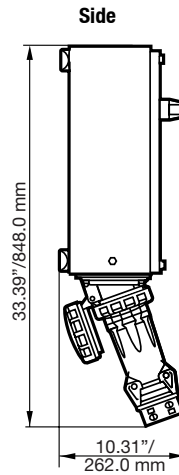
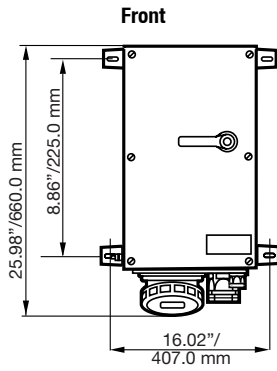
PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

Description	Pin Configuration	Weight (lb/kg)	Volume (in <sup>3</sup> /dm <sup>3</sup> )	Catalog Number
<b>380/415 Vac 50/60Hz – Red</b>				
Wall Socket		0.63/16.0	4271.66/70.0	<b>PRE412RRU6</b>
Plug		0.04/1.1	793.31/13.0	<b>PRE412PR</b>
<b>380/415 Vac 50/60Hz – Red (N)</b>				
Wall Socket		0.63/16.0	4271.66/70.0	<b>PRE512RRU6</b>
Plug		0.04/1.1	793.31/13.0	<b>PRE512PR</b>
<i>(1) 200/346 V – 240/415 Vac 50/60 Hz</i>				
<b>440/460 Vac 60 Hz – Red</b>				
Wall Socket		0.63/16.0	4271.66/70.0	<b>PRE412RR1U6</b>
Plug		0.04/1.1	793.31/13.0	<b>PRE412PR1</b>
<b>440/460 Vac 60 Hz – Red (N)</b>				
Wall Socket		0.63/16.0	4271.66/70.0	<b>PRE512RR1U6</b>
Plug		0.04/1.1	793.31/13.0	<b>PRE512PR1</b>
<i>(2) 250/440 V – 265/460 Vac 60 Hz</i>				
<b>480/500 Vac 50/60 Hz – Black</b>				
Wall Socket		0.63/16.0	4271.66/70.0	<b>PRE412RNU6</b>
Plug		0.04/1.1	793.31/13.0	<b>PRE412PN</b>
<b>480/500 Vac 50/60 Hz – Black (N)</b>				
Wall Socket		0.63/16.0	4271.66/70.0	<b>PRE512RNU6</b>
Plug		0.04/1.1	793.31/13.0	<b>PRE512PN</b>
<i>(3) 277/480 V – 288/500 Vac 50/60 Hz</i>				
<b>600/690 Vac 50/60 Hz – Black</b>				
Wall Socket		0.63/16.0	4271.66/70.0	<b>PRE412RN1U6</b>
Plug		0.04/1.1	793.31/13.0	<b>PRE412PN1</b>
<b>600/690 Vac 50/60 Hz – Black (N)</b>				
Wall Socket		0.63/16.0	4271.66/70.0	<b>PRE512RN1U6</b>
Plug		0.04/1.1	793.31/13.0	<b>PRE512PN1</b>
<i>(4) 347/600 V – 400/690 Vac 50/60 Hz</i>				

# A.T.X.<sup>®</sup> PRE Series 125 Amp Plug and Socket Dimensions

Increased Safety

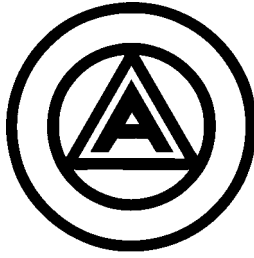
## Dimensions



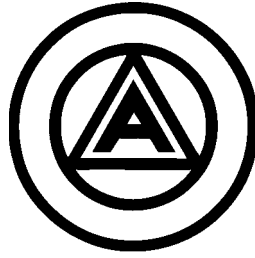
Plugs and Receptacles

PLUGS AND RECEPTACLES: HAZARDOUS LOCATION

# Notes



# Notes



# Notes





# Notes



# Notes

