NEC/CEC: Listed for Ordinary (Unclassified) Locations NEMA 3, 3R, 4, 4X

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 °C to 107 °C (-40 °F to 225 °F).
- 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, 150 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 Plugs may be withdrawn in an emergency under full rated loads without separate disconnect switches (400 Amp plug is for disconnecting use only; not for current rupturing).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 explosionproof interlocking receptacles.
- Controlled length contacts ensure that ground makes first and breaks last for added safety.
- Intermatability ②: Intermateable with Crouse-Hinds Arktite® and Powermate™, and Killark Versamate®.

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







100 and 150 Amp







400 Amp

Options

See Illustrated Options

NEC/CEC Certifications and Compliances

- UL Standard: UL 1682, UL 1686 ①, 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.

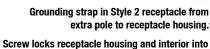


① The UL 1686 standard is applicable to units up to 100 Amps.

[©] Classified by UL and Certified by CSA for use in specific combinations with Crouse-Hinds Arktite® or Killark Versamate®. Arktite is a registered trademark of Cooper Crouse-Hinds. Versamate is a registered trademark of Hubble Killark.

NEC/CEC: Listed for Ordinary (Unclassified) Locations NEMA 3, 3R, 4, 4X

Illustrated Features



an assembly and permits easy field conversion to reverse service for 30, 60, 100, 150, and 200 Amp.

Receptacle interior retaining washers.

Raintight mounting box gasket.

Grounding detent springs in Style 1 and Style 2.

Longer ground terminal in Style 2 receptacle
"makes first, breaks last."
Floating-type plug terminal self-aligns to
receptacle contacts.

Screw locks plug housing and interior into an assembly; also permits easy field conversion to reverse service (30, 60, 100, and 150 Amp).

Grounding strap in Style 2 plug from extra pole to plug housing.

Cable grip assembly.-

Arc snuffing chamber.

Plug with clamping ring has neoprene gasket. Ring threads onto screw cap receptacle to provide NEMA 4X assembly when properly tightened.

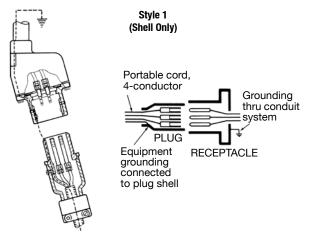
Available in 30, 60, 100, and 150 Amp units.

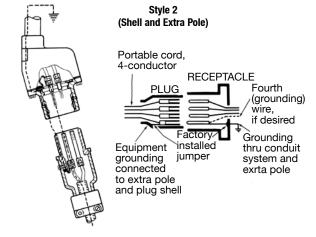


NEC/CEC: Listed for Ordinary (Unclassified) Locations NEMA 3, 3R, 4, 4X

Illustrated Features

Grounding Styles





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."

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 ①







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

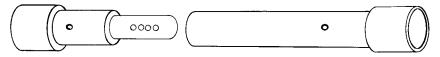
150 Amp Pressure Wire Terminals.
Solid Copper Contacts with Beryllium Copper Springs.



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.

① Pins and sleeves are not sold separately. Must be purchased as entire interior replacement. Available on the Replacement Interiors pages.



NEC/CEC: Listed for Ordinary (Unclassified) Locations NEMA 3. 3R. 4. 4X

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 Automatically Closes



Plug Threaded into Receptacle



Screw Can



Plug with Clamping Ring

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.







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.





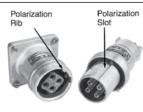
1st Position

2nd Position

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.



Male Receptacle Interior

Female Plug Interior

Special Polarization

Special polarization is available on 30, 60, 100, 200, and 400 Amp units. 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.

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.



Interior

Male Receptacle Interior



EMERSON

NEC/CEC: Listed for Ordinary (Unclassified) Locations NEMA 3, 3R, 4, 4X

Features at a Glance

		Re	ceptacle Typ	es		Contacts				Reverse Service	
Amp	Grounding Styles	Weatherproof Spring Door		Raintight Clamp Cover	Brass with Beryllium Copper Springs	Copper with Borosilicte Bearings	Split–type Copper Contacts	Brass Ground Contacts	In Field	Factory Only	
30	1 and 2	Χ	Χ		Χ			Style 2	Χ		
60	1 and 2	X	Χ		Х			Style 2	Х		
100	1 and 2	Χ	Χ		X			Style 2	Χ		
150	2	Χ	Χ		X ②			Style 2	Χ		
200	1 and 2	X▼		X▼			Х	Style 2	Χ①		
400	1 and 2					Х		Style 2		X	

Application Chart

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

Grounding		Three Phase				
Style	Wire/Pole	With Neutral	Without Neutral			
	2W, 2P					
Style 1 (Shell Only)	3W, 3P		L1+L2+L3+G			
(4W, 4P	L1+L2+L3+N+G				
Style 2	2W, 3P					
(Shell and Extra Pole)	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	115 Vac	Motor Ho 230 Vac	rsepower 480 Vac	600 Vac	Phase Motor	Amps	115 Vac	Motor Ho 230 Vac	rsepower 480 Vac	600 Vac
For Emerge	ncy Disco	nnect Only	,								
	30	3	7-1/2	15	20	1 Dhana	30	2	3	10	10
3-Phase 3W, 3P;	60	7-1/2	15	30	30	1-Phase 2W, 2P	60	3	10	20	20
3W, 4P;	100	10	20	40	40	or	100	7-1/2	15	30	30
or 4W, 4P	150	Do	Not Disconr	nect Under L	.oad	2W, 3P	200	15	30	40	40
T V V, TI	200	20	40	50	50						

Range of Wire Sizes Accommodated in Powertite™ Plug and Receptacle Terminals 60 °C (140 °F) minimum wire ratings.

30, 60, 100, and 150 Amp

200 Amp

400 Amp

Amps	Wire Recess Dia. (Inches)	Wire Building	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		250	General Wire		500 MCM	General Wire
60	.312	#6 – #2	#6 – #4		4/0	General Wire	0.84	400 MCM	Flex. Cable
100	.391	#4 – #1	#4 – #2	0.687	4/0	Flex. Cable	1.25	400 MCM	Extra Flex.
150	.525	#2 – 2/0	#2 – 2/0		3/0	Flex. Cable		1000 MCM	General wire
					3/0	Extra Flex.		900 MCM	General Wire
					2/0	Flex. Cable		800 MCM	Extra Flex.



For receptacle only.



② Copper with beryllium copper springs.

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.

NEC/CEC: Listed for Ordinary (Unclassified) Locations NEMA 3, 3R, 4, 4X



Grounding Style	Wire/Pole	Receptacle with AJA Mounting Box ①	Hub Size (Inches)	Receptacle Only ③	Clamping Ring Plug ②	Plug Cable Dia. (Inches)	
	OW OD	ADJA1022-125	1-1/4	ADD1000	ACP1022CD	075 / 4 000	
	2W, 2P	ADJA1022-150	1-1/2	ADR1022	ACP1022CD	.875 to 1.906	
100 Amp		ADJA1033-125	1-1/4				
Style 1 (Shell Only)	3W, 3P	ADJA1033-150	1-1/2	ADR1033	ACP1033CD	.875 to 1.906	
		ADJA1044-150	1-1/2				
	4W, 4P	ADJA1044-200	2	ADR1044	ACP1044CD	.875 to 1.906	
		ADJA1023-125	1-1/4				
100 Amp Style 2	2W, 3P	ADJA1023-150	1-1/2	ADR1023	ACP1023CD	.875 to 1.906	
(Shell and Extra Pole)		ADJA1034-150	1-1/2				
Extra 1 010)	3W, 4P	ADJA1034-200	2	ADR1034	ACP1034CD	.875 to 1.906	
150 Amp Style 2	0111 45	ADJA15034-150	1-1/2	ABB4500 -	ACP15034CD	.875 to 1.906	
(Shell and Extra Pole)	3W, 4P	ADJA15034-200	2	ADR15034	ACP15034DE	1.250 to 2.187	

Receptacles are provided with spring door and screw cover.

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

For Special Polarization for 100 Amp units, and suffix -P4 to Catalog Number. (Not available for 150 Amp units.)

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.

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

① For additional mounting boxes, see Aluminum Mounting Boxes.

³ Receptacle is NEMA 4X rated when screw cover is fully engaged when the receptacle is not in use.



② Plug and receptacle combination is NEMA 4X rated when clamping ring is fully tightened on receptacle.