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.
- Ambient temperature range of -25°C to +40°C (-13°F to +104°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 Plugs may be withdrawn in an emergency under full rated loads without separate disconnect switches (400 Amp plug is for disconnecting use only; not for current rupturing).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

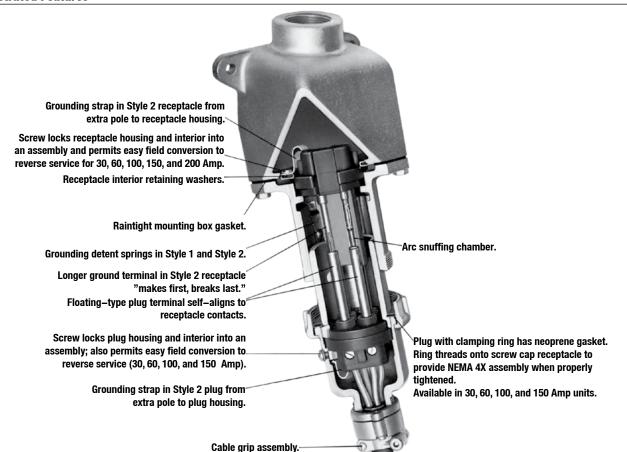
 For classified location plugs and receptacles, see Plugs and Receptacles: Hazardous Location.

- 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

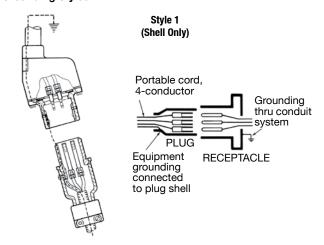


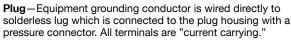
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NEC/CEC: Listed for Ordinary (Unclassified) Locations NEMA 3, 3R, 4, 4X

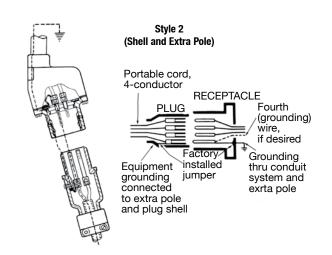
Illustrated Features

Grounding Styles





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.

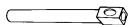
Receptacle—Two detent spring clips engage grounded plug housing on plug insertion. Jumper from extra grounding pole is electrically connected to a screw on receptacle housing. Longer grounding pole "makes first and breaks last."

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.

10 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

Interior

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

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.

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

Features at a Glance

Receptacle Types					Contacts				Reverse Service	
Amp	Grounding Styles	Weatherproof Spring Door	NEMA 4X Screw Cap	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	Χ	Χ		X			Style 2	Χ	
100	1 and 2	Χ	Χ		X			Style 2	Χ	
150	2	Х	Χ		X ②			Style 2	Х	
200	1 and 2	χ▼	-	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			
(2,)	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 (Shell and	2W, 3P					
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				
For Emergency Disconnect Only									
	30	3	7-1/2	15	20				
3-Phase 3W, 3P;	60	7-1/2	15	30	30				
3W, 4P;	100	10	20	40	40				
or 4W, 4P	150	Do	Not Disconn	ect Under L	oad				
	200	20	40	50	50				

Motor Horsepower						
Amps	115 Vac	230 Vac	480 Vac	600 Vac		
30	2	3	10	10		
60	3	10	20	20		
100	7-1/2	15	30	30		
200	15	30	40	40		
	30 60 100	30 2 60 3 100 7-1/2	Amps 115 Vac 230 Vac 30 2 3 60 3 10 100 7-1/2 15	Amps 115 Vac 230 Vac 480 Vac 30 2 3 10 60 3 10 20 100 7-1/2 15 30		

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	0.007	4/0	Flex. Cable		400 MCM	Extra Flex.
	150	.525	#2 – 2/0	#2 – 2/0	0.687	3/0	Flex. Cable		1000 MCM	General wire
						3/0	Extra Flex.	1.25	900 MCM	General Wire
						2/0	Flex. Cable		800 MCM	Extra Flex.



① For receptacle only.

② Copper with beryllium copper springs.



Powertite[™] 400 Amp Pin and Sleeve Plugs and Receptacles

Weatherproof

600 Vac, 250 Vdc, 50-400 Hz. Clamp Cover. Wire Recess Diameter: .84" or 1.25". Wire Size Range: 400MCM—1000MCM. Solder Wire Terminals.

Listed for Ordinary (Unclassified) Locations NEMA 4 —Optional





Wire Recess Dia. (Inches)	Grounding Style	Wire/Pole	Receptacle with AJA Mounting Box ②	Hub Size (Inches) ③	Receptacle Only ②	Plug Only	Cable Dia. (Inches)
		3W, 3P AJA40033-400		AR40033	AP40033E	1.875 to 2.500	
	Style 1 (Shell Only) _	4W, 4P	AJA40044-400	4	AR40044	AP40044E	1.875 to 2.500
0.04 @	(Grion Griny) =	4W, 4P	AJA40044-400N4		AR40044N4	AP40044E	1.875 to 2.50
0.84 ①		2W, 3P	AJA40023-400	4	AR40023	AP40023E	1.875 to 2.500
	Style 2 (Shell and Extra Pole)	3W, 4P	AJA40034-400		AR40034	AP40034E	1.875 to 2.50
	Extra r ole) =	3W, 4P AJA40034-400N4		AR40034N4	AP40034E	1.875 to 2.50	
	Style 1 (Shell Only)	3W, 3P AJA40133-400	4	AR40133 -	AP40133F	2.500 to 3.00	
				AN40133	AP40133G	3.000 to 3.50	
		414/ 415	A 1A 404 44 400	4 AR40144	AD40444	AP40144F	2.500 to 3.00
		4W, 4P	AJA40144-400		AR4U144 -	AP40144G	3.000 to 3.50
4.05	-	4W, 4P	AJA40144-400N4	4	AR40144N4	AP40144G	3.000 to 3.50
1.25		014/ 010	A 14 10 100 100	4	AD40400	AP40123F	2.500 to 3.00
		2W, 3P	AJA40123-400		AR40123 -	AP40123G	3.000 to 3.50
	Style 2 (Shell and — Extra Pole)	0\M/ 4D	A 1A 40404 400		AD40404	AP40134F	2.500 to 3.00
	Extra 1 Oloj	3W, 4P	AJA40134-400	4	AR40134 -	AP40134G	3.000 to 3.50
	_	3W, 4P	AJA40134-400N4	4	AR40134N4	AP40134G	3.000 to 3.50

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 mounting.

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
	500 MCM	37	General Wire
0.84	400 MCM	259	Flexible Cable
	400 MCM	427	Extra Flexible Cable
	1000 MCM	61	General Wire
1.25	900 MCM	427	Flexible Cable
	800 MCM	703	Extra Flexible Cable

① Pressure terminal kits available for .84 wire recess size only to convert solder terminal to pressure terminal. See Replacement Parts page.



^{2 400} Amp versions with the -N4 suffix are NEMA 4 rated.

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