Arktite® Plugs and Receptacles Industrial Heavy Duty Hazardous

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Plugs and Receptacles For Industrial Heavy Duty Hazardous Area Use

Application and Selection

Applications:

• To connect portable or movable electrical equipment, such as motors, motor-generator sets, tools, light systems.

Considerations for Selection:

Environmental:

- The environment of the enclosure location in terms of NEC/CEC compliance.
- · Material and construction to withstand rough usage and atmospheric conditions.

Electrical:†

- · Sufficient current carrying capacity to meet load requirements.
- Compatibility with electrical system (new or existing installation).
- Interchangeability of plugs with other hazardous and non-hazardous area receptacles.

See "Quick Selector" below and "Interchangeability Chart" on next page .

Options:

• Special polarity arrangements available as options, as well as special back boxes and hub arrangements for some series. See listing pages for details.

Quick Selector Chart

		Elect	Electrical Rating†			
Receptacle Series	NEC Compliances	Poles	Amps & Volts	Mating Plug		
CES, CESD	Cl. I, Division 1 and 2, Groups C, D	2-wire, 3-pole 3-wire, 4-pole	30A, 120-240VAC 7A, 460VAC‡ 60A, 115-230VAC 30A, 460VAC‡	СРН		
CPR	Non-hazardous	2-wire, 3-pole	20A, 125–250VAC 20A, 18VDC	CPP		
CPS	Cl. I, Division 1 and 2, Groups C, D	2-wire, 3-pole	20A, 125–250VAC 20A, 18VDC 30A, 125–250VAC 7A, 480VAC‡	CPP		
		3-wire, 4-pole	30A, 125–250VAC 7A, 460VAC‡			
ENR	Cl. I, Division 1 and 2, Groups B, C, D Cl. II, Division 1 and 2, Groups F, G Cl. III	NEMA 5 & 6 Config.	15A, 125VAC 15A, 250VAC 20A, 125VAC 20A, 250VAC	ENP		

[‡]CSA certified units are rated at 600 VAC.

WARNING: CPR Arktite® cable connectors are for use in non-hazardous areas only.



[†]If higher ratings are needed, refer to receptacles interlocked with safety switches and circuit breakers in Section 4P.

Plugs and Receptacles For Industrial Heavy Duty Hazardous Area Use

Interchangeablility Chart

Interchangeability Chart

Many of the plugs listed in this section can be used interchangeably with receptacles from other sections, both in hazardous and non-hazardous areas, **provided electrical rating and style of plug and receptacle are the same.** The following table is a summary of possible combinations.

Plugs Shown in Section 2P	Can be Used with these Receptacle Series	Listed in Section	Plugs & Receptacle Electrical Rating
APJ	AR, NR, NPR FSQ, EPC, EPCB, EBBR DBR, WSR, NSR, NBR	1P 4P 3P, 4P	30 and 60 amp. 2-wire, 3-pole 3-wire, 4-pole 30 and 60 amp. 3-wire, 4-pole
СРН	AR, NR, NPR FSQ, EPC, EPCB, EBBR DBR, WSR, NBR, NSR	1P 4P 3P, 4P	30 and 60 amp. 2-wire, 3-pole 3-wire, 4-pole 30 and 60 amp. 3-wire, 4-pole
CPP	AR, NR, NPR	1P 30 amp. 2-wire, 3-pole 3-wire, 4-pole	
	DBR, WSR, NBR, NSR	3P, 4P	30 amp. 3-wire, 4-pole

Cl. I, Div. 1 & 2, Groups C, D Explosionproof Wet Locations

Delayed Action Factory Sealed

Applications:

CPS receptacles, angle and straight types, and CPP plugs are used:

- With portable electrically operated devices such as motor-generator sets, compressors, conveyors, portable tools, lighting systems and similar equipment
- In locations which are hazardous due to the presence of flammable vapors or gases
- In damp or corrosive locations
- In petroleum refineries, chemical and petrochemical plants, and other process industry facilities where similar hazards exist



Fig. 1



Fig. 2



Fig. 3

Features:

- The delayed action feature permits the plug to be used as an emergency pushpull switch
- CPS receptacles are equipped with a rotating mechanism which prevents complete withdrawal of the CPP plug in one continuous movement. Details of operation are illustrated and explained below

Figure 1 shows a CPS angle type receptacle assembly with CPP plug fully engaged.

Figure 2 shows the plug withdrawn until it is stopped by the delayed action mechanism. In this position the circuit has been broken and the arc has been snuffed in the contact chambers. To completely withdraw the plug as shown in Figure 3, the delayed action release lever mush be rotated counterclockwise. The time required to actuate the mechanism permits dissipation of the arc-generated heat before contacts and arcing chambers are opened to the atmosphere. When inserting the plug, the reverse procedure is followed.

- CPS receptacles are factory sealed to simplify installation and wiring – external seals are not required
- Series 152 receptacles have top hinged cover design, with 45° downward angled receptacle housing, to provide superior environmental protection from accumulations of dust, snow, ice, and water
- Back boxes used for angle type receptacles are standard EDS bodies.
 Assemblies are listed with single and two gang bodies and dead end or through feed hubs – ½" to 1" sizes
- Back boxes used for straight type rceptacles are available with a variety of hub arrangements in ½" and ¾" sizes
- All receptacles and 30 ampere plugs are provided with pressure terminals for ease of field wiring. 20 ampere plugs have solder terminals.

Certifications and Compliances:

• NEC/CEC:

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

UL Standard: 1010

• CSA Standard: C22.2 No. 30

Standard Materials:

- Receptacle housings die cast copperfree aluminum
- EDS Back boxes Feraloy® iron alloy (U.S.)/Copper-free aluminum (Canada)
- Other back boxes Feraloy iron alloy
- Plug exteriors copper-free aluminum or Krydon® fiberglass-reinforced polyester material (see listings)
- Insulation all receptacles and plugs Krydon fiberglass-reinforced polyester material
- Pressure or solder contacts brass
- Crimp/solder contacts leaded red brass

Standard Finishes:

- Copper-free aluminum aluminum acrylic paint
- Feraloy electrogalvanized and aluminum lacquer
- Fiberglass-reinforced polyester natural (red, white)
- · Brass natural
- Leaded red brass electro-tin-plate

Electrical Rating Ranges:

- Angle type 20 and 30 amperes; 125 and 250 VAC
- Straight type 20 amperes; 125 and 250 VAC

Grounding:

- NEC Article 501 and CEC Part 1 Section 18 requires that metal frames or exposed non-current-carrying metal parts of portable devices used in hazardous locations be grounded through an extra conductor in the portable cord
- CPS receptacles and CPP plugs are provided with an extra grounding pole
- In plugs, provision is made for attachment of the grounding wire to the grounding pole. In addition, direct connection is provided between plug and receptacle housings and the grounding pole. In the receptacle, grounding is accomplished through the conduit system

Interchangeability of Plugs with Non-hazardous Location Receptacles:

 30 ampere CPP plugs can also be used with standard 30 ampere AR Arktite receptacles of the same style and number of poles, thus permitting portable devices suitable for use in hazardous locations to be connected to receptacles in both hazardous and nonhazardous areas

Note: Equipment to be used in hazardous areas must be suitable for use in the specific hazardous location.



Wet Locations

Delayed Action Factory Sealed

Options:

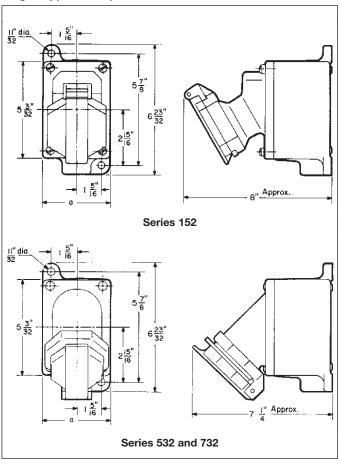
The following special options are available from factory by adding suffix to Cat. #:

3	
Description	Suffix
Material: copper-free aluminum, natural finish, is available on certain back boxes. See listings	SA
Receptacle interior rotated 221/2° to right (viewed from face) and plug changed to match. 30 ampere units only	S4
Combination of receptacles and EFS/EFD or EDS series devices, such as pilot lights, switches, pushbutton stations, etc., can be	
furnished using three, four and five gang bodies	Specify
Hub arrangements other than those listed can be supplied	Specify
Hub arrangements other than those listed can be supplied	Specify

Dimensions

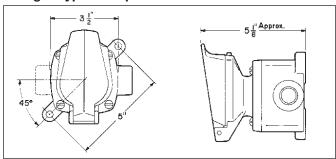
In Inches:

Angle Type Receptacles

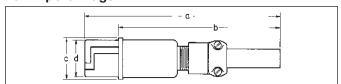


31/2 for single gang 73/16 for two gang

Straight Type Receptacles



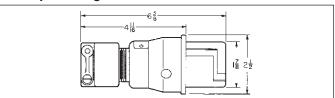
20 Ampere Plugs



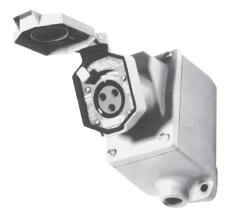
Cat. #	a†	b†	С	d	
CPP516‡	83/8	67/8	13/4	19/16	
CPP512‡	7	51/2	13/4	1 %/16	

- †These dimensions are approximate and vary with cable size. ‡ 20 amp plugs are furnished with solder terminations at standard, ground contacts have

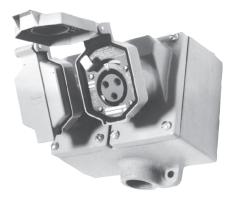
30 Ampere Plugs



Delayed Action Factory Sealed



CPS152 - Single gang angle type



CPS152 - Two gang angle type



CPS152R - Receptacle unit only

Plug with



CPP Plugs with mechanical cable grip and neoprene bushing

Style 2 - Grounded Through Extra Pole and Shell

Rating	Description		Hub Size (In.)	Single Gang Receptacle Assembly Cat. #	Two Gang Receptacle Assembly Cat. #	Cable Dia. (In.)	Plug with Aluminum Handles Cat. #	High Impact Molded Composition Handle Cat. #	Receptacle Unit only Cat. #
20A, 1 HP, 125–250VAC,	2-wire, 3-pole	Dead End	1/ ₂ 3/ ₄ 1	CPS152 101* CPS152 201* CPS152 301*	CPS152 102* CPS152 202* CPS152 302*	.312 to .625	CPP516‡	CPP512±	CPS152R
60 hertz, 20A, 18VDC	. ,	Through Feed	1/ ₂ 3/ ₄ 1	CPS152 111* CPS152 211* CPS152 311*	CPS152 112* CPS152 212* CPS152 312*	,			
30A, 1½ HP, 125–250VAC, 60 hertz,	2-wire, 3-pole	Dead End	1/ ₂ 3/ ₄ 1	CPS532 101 CPS532 201 CPS532 301	CPS532 102 CPS532 202 CPS532 302	} .375 to .875†	CPP4553		CPS532R
7A, ½ HP, 480VAC**, 60 hertz	z wie, e pole	Through Feed	1/ ₂ 3/ ₄ 1	CPS532 111 CPS532 211 CPS532 311	CPS532 112 CPS532 212 CPS532 312	J.070 to .070	10.070		01 000211
30A, 3 HP, 125–250VAC, 60 hertz,	3-wire, 4-pole	Dead End	1/ ₂ 3/ ₄ 1	CPS732 101 CPS732 201 CPS732 301	CPS732 102 CPS732 202 CPS732 302	} .375 to .875†	CPP4752		CPS732R
7A, 1 HP, 480VAC**, 60 hertz	o wile, 4 pole	Through Feed	1/ ₂ 3/ ₄ 1	CPS732 111 CPS732 211 CPS732 311	CPS732 112 CPS732 212 CPS732 312	J 10 .0731	0117102		J. 070211

^{*}Back boxes are available in copper-free aluminum. To order, add suffix SA to the Cat. No. ** CSA certified units are rated at 600 VAC at 7A.



[†] Receptacles will take any of the plugs grouped in the bracket opposite the receptacle listings.

^{‡ 20} amp plugs are furnished with solder terminations at standard, ground contacts have pressure terminations.

Arktite® Circuit Breaking CPS Receptacles and CPP Plugs

CI. I, Div. 1 & 2, Groups C, D Explosionproof Wet Locations

Delayed Action Factory Sealed

CPS Straight Type

2-wire, 3-pole 20A, 1HP, 125–250VAC, 60–400 hertz, 20A, 18VDC

CPS Dead End



Hub Size (In.)	Assembly Cat. #	Body Cat. #
1/2	CPS14 120	CPS120
3/4	CPS14 20	CPS20

CPS Through Feed



Hub	Assembly	Body
Size (In.)	Cat. #	Cat. #
1/ ₂	CPS14 121	CPS121
3/ ₄	CPS14 21	CPS21

CPS Receptacle Unit With Spring Door



Туре	Cat. #
CPS Receptacle Unit	CPS14R
with Spring Door	CF314N

CPP Plugs

With Mechanical Cable Grip and Neoprene Bushing



With aluminum handle



With high impact molded composition handle

Cable Dia. (In.)	Aluminum Cat. #	Composition Cat. #
.312 to .625	CPP516	CPP512



CPS straight type shown with plug

Arktite® CPR Cable Connector Receptacles Delayed Action Circuit Breaking

Applications:

CPR Arktite delayed action cable connector receptacles are used in non-hazardous areas only*:

- To make up adapter sets for connecting portable devices having CPP plugs to receptacles in non-hazardous areas. This is accomplished by equipping one end of the length of cable with the CPR receptacle and the other with a plug to mate with the receptacle in the non-hazardous area.
- To make up extension cords using the CPR receptacle at one end and a CPP plug at the other.

Features:

- Spring door housing with the same delayed action rotating mechanism provided in CPS receptacles
- · Pressure terminals are furnished for ease of wiring
- Gland nut with mechanical cable grip and bushing for effective strain relief

Standard Materials:

- Housing copper-free aluminum
- Insulation fiberglass-reinforced polyester
- Contacts brass

Standard Finishes:

- Copper-free aluminum natural
- Fiberglass-reinforced polyester natural (red)
- Brass natural

Style 2 – Grounded Through Extra Pole and Shell

For Use With CPP516 and CPP512 Series Plugs



Description	Rating	Cable Dia.	Cat. #
2-wire, 3-pole	20A, 1HP, 125–250VAC, 60 hertz 20A, 18 VDC	.375 to .625	CPR154



^{*}CSA certified unit suitable for Class I, Groups C and D (not available in USA).

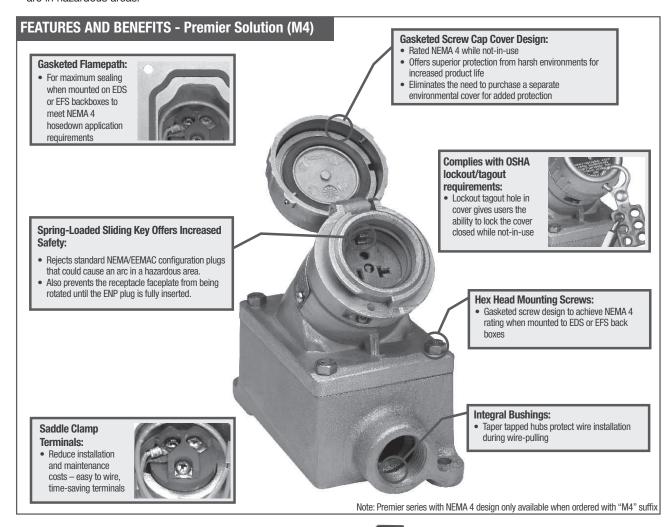
Premier and Value Series

Ark•Gard® Premier Series:

• The premier line of ENR Receptacles (M4) come equipped with an exclusive cover design that provides a watertight NEMA 4 rating while not in use. This design provides superior protection in environments that are NEMA 4 and where extra protection is required against blowing sand and dust. There is no other product offering on the market today that can offer these hazardous NEMA style units with this level of watertight protection. The premier ENR Receptacle series also includes value-added features that provide ease of installation, added safety, reduced maintenance costs, and increased product life.

Ark•Gard® Value Series:

The value line of ENR Receptacles is the ideal solution for rugged and industrial NEMA configured application up to 20 amperes. Like the
premier line, this product comes equipped with built-in safety features that reject standard NEMA configuration plugs that could cause an
arc in hazardous areas.





- To make connection, simply insert the ENP plug and rotate to close the circuit
- Built-in features cause the ENP plug to become locked in the receptacle and cannot be accidentally disengaged while in use



angle provides protection in damp, wet and dirty locations

Top hinged cover design with 45° downward

- Molded-in contact design provides for superior interior contact reliability
 Incorporates three spring-loaded slide
- Incorporates three spring-loaded slide keys that prevent the receptacle face plate from being rotated until the ENP plug us fully inserted into the receptacle.



ENR Premier Series Dead Front Interlocked

Circuit Breaking Receptacles

ENP Plugs

Cl. I, Div. 1 & 2, Groups B*, C, D Explosionproof Cl. II, Div. 1 & 2, Groups F, G CI. III NEMA 3, 7BCD, 9FG, 12

Dust-Ignitionproof Raintight Wet Locations

Applications:

Ark•Gard® products are used:

- In applications that require additional environmental protection, or in NEMA 4 hosedown environments where washdown/hosedowns occur
- With portable or fixed electrical equipment such as motor generator units, welders, pumps, compressors, heating and cooling units, cellular relay stations, conveyors, lighting systems, and similar equipment
- In areas made hazardous by the presence of flammable vapors and gases or combustible dusts
- When power requirements do not exceed 20 amperes

Certifications and Compliances:

Class I, Division 1, Groups B*, C, D Class II, Groups F, G Class III

NEMA 3, 3R, 4X, 7

CEC±:

Class I, Division 1, Groups B*, C, D

Class II, Groups G

Class III

NEMA 3, 3R, 4X, 7

Standard Materials:

- · Receptacle housing, spring door and plug body die cast copper-free aluminum
- Interiors: receptacle Krydon® fiberglass-reinforced polyester material; plugs - nylon 100
- Contacts: receptacle blade brass; receptacle switch silver; plug - brass
- Receptacle cover hinge pin and spring stainless steel
- Receptacle gasket neoprene
- Plug bushing neoprene

Standard Finishes:

- Copper-free aluminum aluminum acrylic paint
- Brass natural

Options:

Description **Suffix** Corro-free™ epoxy powder finish for added corrosion resistance \$752

Electrical Rating Ranges:

· Receptacles:

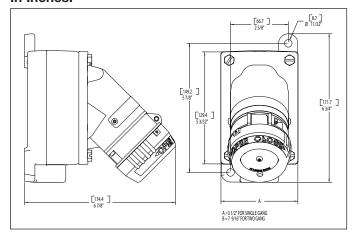
15 amperes; 125 VAC and 250 VAC, 50-400 hertz 20 amperes; 125 VAC and 250 VAC, 50-400 hertz

15 amperes; 125 VAC and 250 VAC, 50-400 hertz 20 amperes; 125 VAC and 250 VAC, 50-400 hertz

Grounding:

 NEC Article 501 and CEC Section 18 requires that metal frames or exposed non-current-carrying metal parts of portable devices used in hazardous locations be grounded through an extra conductor in the portable cord. ENR Receptacles and ENP Plugs are provided with an extra grounding pole.

Dimensions In Inches:



Type

Single Gang Double Gang **Dimension A**

31/2" 79/161

*Single gang assemblies purchased with an EDS back box are suitable for Class I, Group C, D only. For self-certified Class I, Group B rating, add the suffix "GB" to the catalog number (i.e. ENR21201 GB M4). Dual gang assemblies purchased with an EDS back box are suitable for Class I, Group C, D only. For self-certified Class I, Group B rating, add the suffix "GB" to the catalog number (i.e. ENR22201 GB M4) ‡15A units are CSA Listed only.



ENR Premier Series Dead Front Interlocked Circuit Breaking Receptacles

Cl. I, Div. 1 & 2, Groups B*, C, D Cl. II, Div. 1 & 2, Groups F, G CI. III NEMA 3, 7BCD, 9FG, 12

Explosionproof **Dust-Ignitionproof** Raintight Wet Locations

ENP Plugs

Ordering Information:

15A	15 A Receptacle Rating	Description	Hub Size	Single Gang* Receptacle Assembly Cat. #	Two Gang** Receptacle Assembly Cat. #	Receptacle§ Unit Only Cat. #	NEMA Config.	15 A Plug†† Cat. #	NEMA Config.
		Dead End	1/2" 3/4"	ENR11151 M4 ENR21151 M4	ENR12151 M4 ENR22151 M4				
	15 Amp 125 Volt		1"	ENR31151 M4	ENR32151 M4	ENR5151 M4	() () () () () () () () () ()	ENP5151	G W
	120 0010	Through Feed	1/2" 3/4"	ENRC11151 M4 ENRC21151 M4	ENRC12151 M4 ENRC22151 M4				
6			1"	ENRC31151 M4	ENRC32151 M4		5-15R		5-15P
(P		Dead End	1/2" 3/4"	ENR11152 M4 ENR21152 M4	ENR12152 M4 ENR22152 M4				
	15 Amp 250 Volt		1"	ENR31152 M4	ENR32152 M4	ENR6152 M4	(□ □ W	ENP6152	G G
		Through Feed	1/2" 3/4" 1"	ENRC11152 M4 ENRC21152 M4 ENRC31152 M4	ENRC12152 M4 ENRC22152 M4 ENRC32152 M4		6-15R		6-15P
20A	20 A Receptacle Rating	Description	Hub Size	Single Gang* Receptacle Assembly Cat. #	Two Gang** Receptacle Assembly Cat. #	Receptacle§ Unit Only Cat. #	NEMA Config.	20 A Plug†† Cat. #	NEMA Config.
		Dead End	1/2" 3/4"	ENR11201 M4 ENR21201 M4	ENR12201 M4 ENR22201 M4				
	20 Amp 125 Volt		1"	ENR31201 M4	ENR32201 M4	ENR5201 M4	06	ENP5201	G G W ■
		Through Feed	1/2"	ENRC11201 M4	ENRC12201 M4				
		roca	3/4"	ENRC21201 M4	ENRC22201 M4				
ŲL			1"	ENRC31201 M4	ENRC32201 M4		5-20R		5-20P
(P		Dead End	1/2" 3/4"	ENR11202 M4 ENR21202 M4	ENR12202 M4 ENR22202 M4				
	20 Amp 250 Volt		1"	ENR31202 M4	ENR32202 M4	ENR6202 M4	(C)6	ENP6202	G G
		Through Feed	1/2" 3/4" 1 "	ENRC11202 M4 ENRC21202 M4 ENRC31202 M4	ENRC12202 M4 ENRC22202 M4 ENRC32202 M4		6-20R		6-20P

^{††}ENP Plugs use #12 or #14 AWG type S, SO, ST or STO cord with range of .540 to .635 inches diameter.

Note: ‡15A with copper-free aluminum EDS, EDSC back boxes. 20A with Feraloy® iron alloy EDS, EDSC back boxes.



^{*}Single gang assemblies purchased with an EDS back box are suitable for Class I, Group C, D only. For self-certified Class I, Group B rating, add the suffix "GB" to the catalog number

[&]quot;Single gang assemblies purchased with an EDS back box are suitable for Class I, Group C, D only. For self-certified Class I, Group B rating, add the suffix "GB" to the catalog number (i.e. ENR21201 M4 GB).

**Dual gang assemblies purchased with an EDS back box are suitable for Class I, Group C, D only. For self-certified Class I, Group B rating, add the suffix "GB" to the catalog number (i.e. ENR22201 M4 GB).

**Receptacle units alone (i.e. ENR5201) are not suitable for Class I, Group B.

ENR Value Series Dead Front Interlocked Circuit Breaking Receptacles

Cl. I, Div. 1 & 2, Groups B+, C, D Cl. II, Div. 1 & 2, Groups F, G CI. III NEMA 3, 7BCD, 9FG, 12

Explosionproof **Dust-Ignitionproof** Raintight Wet Locations

ENP Plugs

Applications:

ENR receptacles and ENP plugs are used:

- With portable electrical equipment such as compressors, tools, lighting systems, and similar devices
- In areas made hazardous by the presence of flammable vapors and gases or combustible dusts
- Wherever portable electrical equipment is likely to be transferred from hazardous to non-hazardous areas
- In damp and corrosive areas
- · When power requirements do not exceed 20 amperes
- · Where general purpose application is required

Features:

- Ark•Gard 2 receptacle incorporates three spring-loaded slide keys that prevent the receptacle face plate from being rotated until the ENP plug is fully inserted into the receptacle. To make the connection, the ENP plug is fully inserted, and the receptacle face moved inward by pushing the plug forward. The plug is then rotated, closing the circuit. As rotation begins, the plug becomes locked in the receptacle and cannot be accidentally disengaged. In making or breaking the circuit, any resulting electrical arc is confined in the factorysealed chamber.
- · Factory-sealed chamber encloses the potential arcing components between two explosionproof threaded joints. These threads are specially coated to guarantee freedom of movement, which ensures on-off action. No additional seals are required.
- · One piece molded gasket seals cover plate and ENP plug when plug is inserted, providing full environmental protection at the receptacle face.
- Top-hinged cover design with 45° downward angle provides superior protection in damp, wet, and dirty
- · Molded-in contact design provides superior interior contact reliability.
- ENP plugs can be used in non-hazardous areas with standard U-ground NEMA/EEMAC configuration 5 and 6 receptacles, eliminating the need for two separately equipped portable units of the same type. The ENR receptacle will not accept standard NEMA/ EEMAC configuration plugs.
- ENP plug handle body is designed with an internal cord strain relief mechanism and a cable sealing grommet which will accept various cable diameters.
- Field assembly is accomplished with standard tools.
- · Use standard EDS back boxes.

Certifications and Compliances:

• NEC:

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

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

- ANSI/UL Standard 1010
- NEMA/EEMAC 3, 7BCD, 9FG
- CFC:

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

Class II, Division 1 and 2, Group G Class III

Standard Materials:

- Receptacle housing, spring door and plug body - die cast copper-free aluminum
- Interiors: receptacle Krydon® fiberglass-reinforced polyester material; plugs - nylon 100
- Contacts: receptacle blade brass; receptacle switch - silver; plug - brass
- Receptacle cover hinge pin and spring stainless steel
- Receptacle gasket neoprene
- Plug bushing neoprene

Standard Finishes:

- Copper-free aluminum aluminum acrylic paint
- Brass natural

Electrical Rating Ranges:

- Receptacles:
 - 20 amperes; 125 VAC and 250 VAC, 50-400 hertz
- · Plugs:
 - 15 amperes; 125 VAC and 250 VAC, 50-400 hertz
 - 20 amperes: 125 VAC and 250 VAC. 50-400 hertz

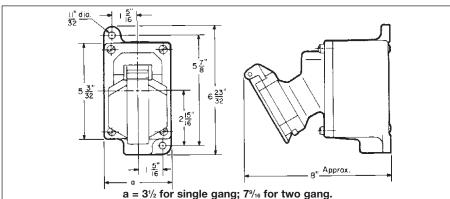
Grounding:

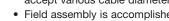
 NEC Article 501 and CEC Section 18 requires that metal frames or exposed non-current-carrying metal parts of portable devices used in hazardous locations be grounded through an extra conductor in the portable cord. ENR Receptacles and ENP Plugs are provided with an extra grounding pole.

CAUTION: To reduce the risk of ignition of hazardous atmospheres, do not use plugs or receptacles in Class II, Group F locations that contain electrically conductive dusts.

Dimensions

In Inches:





†Receptacle units alone (i.e. ENR5201) are not suitable for Class I, Group B.

ENR Value Series Dead Front Interlocked Circuit Breaking Receptacles

Cl. I, Div. 1 & 2, Groups B+, C, D Cl. II, Div. 1 & 2, Groups F, G CI. III NEMA 3, 7BCD, 9FG, 12

Explosionproof **Dust-Ignitionproof** Raintight Wet Locations

ENP Plugs

Ordering Information:









				-	3	3			
15 A	15 A Receptacle Rating	Description	Hub Size	Single Gang* Receptacle Assembly Cat. #	Two Gang** Receptacle Assembly Cat. #	Receptacle† Unit Only Cat. #	NEMA Config.	15 A Plug‡ Cat. #	NEMA Config.
		Dead End	1/2" 3/4"	ENR11151 ENR21151	ENR12151 ENR22151				
	15 Amp 125 Volt		1"	ENR31151	ENR32151	ENR5151	(G G G G G G G G G G G G G G G G G G G	ENP5151	w ■ ■
(P		Through Feed	1/2" 3/4" 1 "	ENRC11151 ENRC21151 ENRC31151	ENRC12151 ENRC22151 ENRC32151		5-15R		5-15P
		Dead End	1/2" 3/4"	ENR11152 ENR21152	ENR12152 ENR22152				
	15 Amp 250 Volt		1"	ENR31152	ENR32152	ENR6152	(O _G	ENP6152	● G
		Through Feed	1/2" 3/4" 1 "	ENRC11152 ENRC21152 ENRC31152	ENRC12152 ENRC22152 ENRC32152		6-15R		6-15P
20 A	20 A Receptacle Rating	Description	Hub Size	Single Gang Receptacle Assembly Cat. #	Two Gang Receptacle Assembly Cat. #	Receptacle Unit Only Cat. #	NEMA Config.	20 A Plug Cat. #	NEMA Config.
		Dead End	1/2" 3/4"	ENR11201 ENR21201	ENR12201 ENR22201				
	20 Amp 125 Volt		1"	ENR31201	ENR32201	ENR5201	06	ENP5201	G G
(IL)		Through Feed	1/2" 3/4" 1 "	ENRC11201 ENRC21201 ENRC31201	ENRC12201 ENRC22201 ENRC32201		5-20R		5-20P
(F)		Dead End	1/2"	ENR11202	ENR12202		3-2011		3-201
₩	00.4		3/4"	ENR21202	ENR22202				
	20 Amp 250 Volt		1"	ENR31202	ENR32202	ENR6202	O _e	ENP6202	w G
		Through Feed	1/2" 3/4" 1"	ENRC11202 ENRC21202 ENRC31202	ENRC12202 ENRC22202 ENRC32202		6-20R		6-20P



[†]Receptacle units alone (i.e. ENR5201) are not suitable for Class I, Group B. *Single gang assemblies purchased with an EDS back box are suitable for Class I, Group B.

^{*}Dual gang assemblies purchased with an EDS back box are suitable for Class I, Group C, D only. For Class I, Group B rating, add the letter B to the Cat. No. Example: ENRB22201. Seals must be installed within 11½" of each conduit opening.

‡ENP Plugs use #12 or #14 AWG type S, SO, ST or STO cord with range of .540 to .635 inches diameter.

Note: 15A with copper-free aluminum EDS, EDSC back boxes. 20A with *Feraloy** iron alloy EDS, EDSC back boxes.

Cl. I, Div. 1 & 2, Groups C, D Cl. II, Div. 1, Groups E, F, G Cl. II, Div. 2, Groups F, G

CI. III

NEMA/EFC 7CD, 9EFG, 12

Explosionproof **Dust-Ignitionproof**

Applications:

Premier ENR-GFS Assemblies are used:

- With portable electrical equipment such as tools, lighting systems, compressors and similar devices for personnel
- In areas made hazardous by the presence of flammable vapors, gases or combustible dusts
- In branch circuits of 15 to 20 amperes at 125 volts AC

Features:

- Premier ENR-GFS Assemblies are installed on two-gang EDS back boxes. They are NEMA 3 rated and self-certified to meet UL requirements for Class I, Div. 1, Group B environments.
- Allows for a single part number to be specified, ordered and delivered on-site, significantly reducing the cost of order processing, material handling and misplacement of materials.
- Premier ENR-GFS components meet all UL and CSA requirements for ground fault protection in hazardous locations.
- Includes all of the value-added features of the Premier ENR Receptacle series: NEMA 4 cover design, OSHA lockout/tagout compliance, and a spring-loaded sliding key for added
- The GFCI protects personnel against possible injury due to unwanted ground faults; meets requirements for personnel protection as defined in the National Electrical Code®.

Certifications and **Compliances:**

NEC/CEC

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

- ANSI/UL Standard: 943, 1203
- NEMA/EEMAC 7CD, 9EFG, 12
- CSA Standard: C22.2 No. 30, 144

Standard Materials:

- · Receptacle housing, spring door and plug body - die cast copper-free aluminum
- Interiors: receptacle Krydon® fiberglass-reinforced polyester material
- Contacts: receptacle blade brass; receptacle switch - silver
- Receptacle cover hinge pin and spring stainless steel
- Receptacle gasket neoprene

Standard Finishes:

- Copper-free aluminum aluminum lacquer
- Stainless steel natural
- Polycarbonate natural (ivory)
- Brass natural

Electrical Rating Ranges:

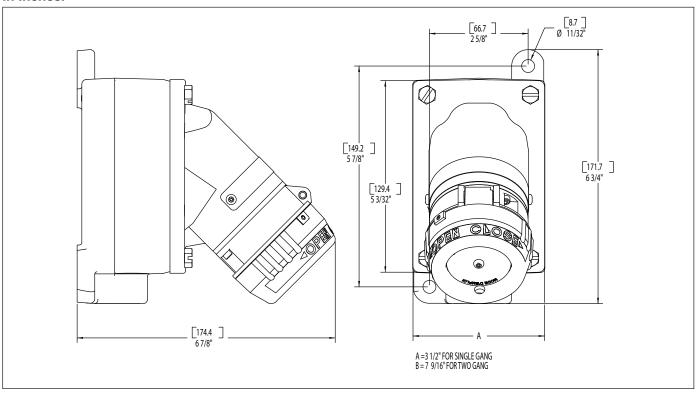
- 20 amperes
- 125 VAC



Ordering Information:

20 A Certifications	20 A Receptacle Rating	Description	Hub Size	Two Gang Receptacle Assembly Cat. #	NEMA Config.	20A Plug Cat. #	NEMA Config.
(U _L)	20 Amp 125 Volt	Dead End	1/2" 3/4" 1 "	ENR12201 M4 GFS ENR22201 M4 GFS ENR32201 M4 GFS	O ₆	ENP5201	G G
®		Through Feed	1/2" 3/4" 1"	ENRC12201 M4 GFS ENRC22201 M4 GFS ENRC32201 M4 GFS	5-20R		5-20P

Dimensions In Inches:



Туре	Dimension A	
Single Gang	31/2"	
Double Gang	79/16"	

Hazardous Locations: Cl. I, Groups B, C, D Cl. II, Group G Cl. III NEMA 3R, 4 Non-hazardous Locations: NEMA 3R, 4 UL Listed

ENC Connector:

 This NEMA 4 connector makes it safe and easy to bring power wherever it is needed. It provides versatility for making cord sets for connecting portable devices in non-hazardous locations and hazardous locations

Applications:

ENC Connectors are used:

- In abusive locations where product durability is critical
- With portable or fixed electrical equipment such as motor generator units, work lights, pumps, compressors, heating and cooling units, conveyors, lighting systems, and similar equipment
- Wherever portable electrical equipment is likely to be transferred from hazardous to non-hazardous areas
- In damp and corrosive areas
- When power requirements do not exceed 20 amperes

Features:

- Offering includes: 15A and 20A, 125V
- Users no longer have to make up their own ENR/EDS female extension cord ends, which are heavy to move, difficult to store, and offer no form of strain relief
- Hinged, locking cover provides a watertight NEMA 4 rating with superior protection in damp, wet, and dirty locations
- Molded-in contact design provides superior interior contact reliability
- Lockout/tagout feature in cover provides safety and complies with OSHA requirements
- Impact resistant center plate design ensures long product life
- Ark•Gard products come with unsurpassed easy-to-wire, timesaving terminals and an internal cord strain relief that provides superior pull strength
- Equipped with time-tested industry-leading features of Arktite® Plugs and Connectors, including:

Uni-Shell™ handle body, The Tri-Lock™ cable grip and Sure-Seal™ cable gland

Certifications and Compliances:

Non-hazardous Locations

- NEMA 3R. 4
- UL Listed UL 498

Hazardous Locations

- Class I, Groups B, C, D
- · Class II, Groups G, Coal Dust
- Class III
- NEMA 3R, 4
- CSA Certified CSA C22.2 No. 159M





Standard Materials:

- Connector bodies high impact strength copper-free aluminum
- Insulation fiberglass-reinforced polyester material
- Contacts: receptacle blade brass; receptacle switch silver; plug – brass

Standard Finishes:

- Aluminum natural
- Fiberglass-reinforced polyester red

Options:

Description	Suffix
 Corro-free[™] epoxy powder finish for added corrosion 	
resistance	S752

Electrical Rating Ranges:

- 20 amperes
- 125 VAC

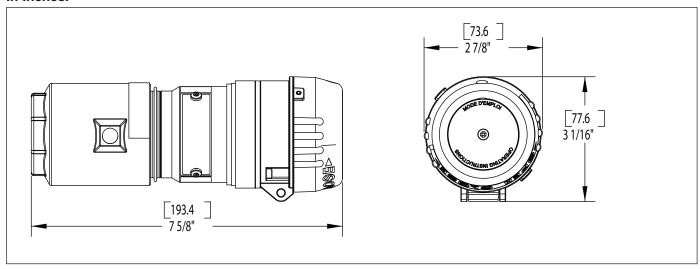


Ordering Information:

15A/20A Rating	Cord Range	Connector Cat. #	NEMA Config	. 3	NEMA Config.	
15 Amp 125 Volt	0.39-1.20	ENC5151		ENP5151	w I	
		ENC5151 CAN	⑤ 5-15R		5-15P	
20 Amp 125 Volt	0.39-1.20	ENC5201		ENP5201	G G W B	
		ENC5201 CAN	⑤ * 5-20R		5-20P	

Dimensions

In Inches:



Explosionproof **Dust-Ignitionproof**

Cl. II, Div. 1, Groups E, F, G Cl. II, Div. 2, Groups F, G CI. III

Cl. I, Div. 1 & 2, Groups C, D

NEMA/EFC 7CD, 9EFG, 12

Applications:

GFS ground fault circuit interrupters are used:

- With portable electrical equipment such as tools, lighting systems, compressors and similar devices for personnel protection
- In areas made hazardous by the presence of flammable vapors, gases or combustible dusts
- In branch circuits of 15 to 20 amperes at 125 volts AC
- In conjunction with ENR or CPS152 receptacles

Features:

- Factory sealed chamber encloses the ground fault circuit interrupter (GFCI) and its potentially arcing components in an enclosure with explosionproof ground joints. No additional sealing is required when proper body is used.
- · GFCI protects personnel against possible injury due to unwanted ground faults; meets requirements for personnel protection as defined in the National Electrical Code®.
- GFCI is feed-through type to serve several receptacles.
- Decentralized GFCI protection on branch circuits permits immediate identification of circuit where a ground fault is occurring; does not interrupt power on total branch circuit if tripped or when periodically tested; significantly reduces incidence of nuisance tripping; provides for use of 125 VAC portable lighting even when working on metal floors or catwalks.
- Field installation is accomplished with standard tools.
- Can be installed on any Cooper Crouse-Hinds single or multiple gang EDS or EDSC device box.

Certifications and Compliances:

NEC/CEC

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

- ANSI/UL Standard: 943, 1203
- NEMA/EEMAC 7CD, 9EFG, 12
- CSA Standard: C22.2 No. 30. 144

Standard Materials:

- Cover sand cast copper-free aluminum
- Sealing well die cast copper-free aluminum
- Pushbuttons and guards stainless steel
- Shaft seals neoprene
- Interior: body polycarbonate; contacts - brass



Standard Finishes:

- Copper-free aluminum aluminum lacquer
- Stainless steel natural
- Polycarbonate natural (ivory)
- Brass natural

Electrical Rating Ranges:

- 20 amperes
- 125 VAC
- 5 milliampere trip setting
- Class A per ANSI/UL943

Ordering Information:

Amps	Description

Cat. #

Factory-sealed ground GFS₁ 20 fault circuit interrupter – 5 milliampere trip

Application Recommendations:

 GFS-1 can be installed in an FDS back. box (see page 503) for point-of-use protection or for protection of downstream receptacles.



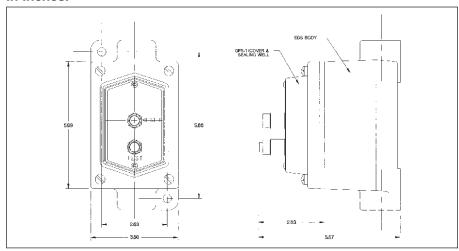
GFS-1 with EDS271 back box

GFS-1 can be used with ENR or CPS receptacles and EDS back box for circuit interrupter protection of portable equipment.



GFS-1 with EDS172 back box and ENR5201 M4 receptacle

Dimensions In Inches:



Delayed Action Circuit Breaking CPH Plugs

CESD — Cl. I, Div. 1 & 2, Group D* CES — Cl. I, Div. 1 & 2, Groups C, D Explosionproof Wet Locations Factory Sealed

Applications:

CES and CESD receptacles with CPH plugs are used:

- With portable electrically operated devices such as motor-generator sets, compressors, conveyors, portable tools, lighting systems and similar equipment
- In locations which are hazardous due to the presence of flammable vapors or gases
- In damp or corrosive locations
- At petroleum refineries, chemical and petrochemical plants, and other process industry facilities where similar hazards exist

Features:

- CES and CESD receptacles are equipped with a delayed action rotating sleeve which prevents complete withdrawal of the CPH plug in one continuous movement
- The delayed action feature permits the plug to be used as an emergency pushpull switch
- Details of operation are illustrated and described to the right:
- Receptacles are factory sealed to simplify installation and wiring. External seals are not required.
- The 30 ampere receptacles are provided with pressure terminals for field connection. The 60 ampere receptacles have flexible leads. Plugs are equipped with solder terminals.
- Two arrangements are provided for the ³/₄" and 1¹/₄" conduit hubs, as shown in the listings and dimensions on page see page 1278.

Certifications and Compliances:

• NEC/CEC:

CES - Class I, Division 1 and 2, Groups C, D; CESD - Class I, Division 1 and 2, Group D*

- ANSI/UL Standard: 1010
- CSA Standard: C22.2 No. 182.1

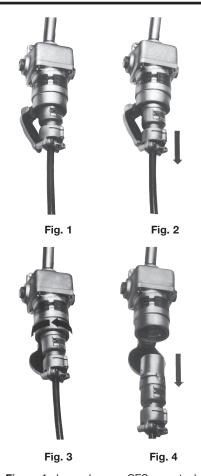


Figure 1 above shows a CES receptacle assembly with CPH plug fully engaged.

Figure 2 shows the plug withdrawn until it is stopped by the delayed action sleeve. In this position the circuit has been broken and the arc has been snuffed in the contact chambers.

Figure 3 shows the delayed action receptacle sleeve rotated approximately 45° to allow withdrawal of plug from receptacle.

Figure 4 shows the plug completely withdrawn. To accomplish this, the delayed action sleeve must be rotated counterclockwise. The time required to actuate the mechanism permits dissipation of the arc-generated heat before contacts and arcing chambers are opened to the atmosphere. When inserting the plug, the reverse procedure is followed.

Standard Materials:

- Back boxes Feraloy® iron alloy
- Receptacle housings 30 ampere copper-free aluminum; 60 ampere – Feraloy® iron alloy
- Plug bodies copper-free aluminum
- Insulation Krydon® fiberglassreinforced polyester
- · Contacts brass or hard-drawn copper

Standard Finishes:

- Feraloy electrogalvanized and aluminum acrylic paint
- Copper-free aluminum natural
- Krydon material red
- Brass and copper natural

Grounding:

- NEC article 501 and CEC Part 1 Section 18 require that metal frames or exposed non-current-carrying metal parts of portable devices used in hazardous locations be grounded through an extra conductor in the portable cord.
- CES and CESD receptacles and CPH plugs are provided with an extra grounding pole for attachment of the grounding wire. In the plugs, provision is made for attachment of the grounding wire to the grounding pole. In addition, direct connection is provided between plug and receptacle housings and the ground pole. In the receptacles, grounding is accomplished through the conduit system.

Interchangeability of Plugs with Non-hazardous Location Receptacles:

- CPH plugs can also be used with standard AR and NR receptacles of the same ampere rating, style and number of poles, thus permitting portable devices which are suitable for use in hazardous locations to be connected to receptacles in both hazardous and nonhazardous areas
- Portable devices for non-hazardous areas equipped with APJ and NPJ Arktite plugs cannot be used with CES and CESD receptacles

Electrical Rating Ranges:

• 30 and 60 amperes

Options:

The following special options are available from the factory by adding the suffix to the Cat. #: **Description** Suffix

 Special polarity – for use where two or more receptacles of the same ampere rating, style and number of poles are to be installed in the same area for use on different voltages. Receptacle interior rotated 22½° clockwise when viewed from face and plug changed to match

S4

29

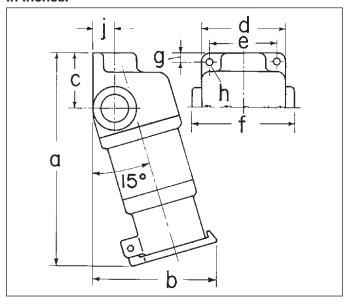


*For U.S. CESD are also suitable for Class I, Group C when used with immediately adjacent seals.

Delayed Action Circuit Breaking CPH Plugs Dimensions

 $\begin{array}{l} \text{CESD} - \text{CI. I, Div. 1 \& 2, Group D*} \\ \text{CES} - \text{CI. I, Div. 1 \& 2, Groups C, D} \end{array}$ Explosionproof Wet Locations Factory Sealed

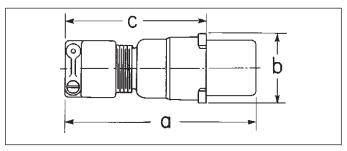
Dimensions In Inches:



g - 15°	e h
a	

CES									
Cat. #	а	b	С	d	е	f	g	h	j
CES2213 CES2214	77/16	45/8	23/16	33/8	23/4	41/8	5/16	11/32	7/8
CES4233 CES4234	12	7	27/8	51/4	43/8	61/8	7/16	13/32	11/8

CESD							
Cat. #	а	b	е	f	g	h	j
CESD2213 CESD2214	75/8	6³/ ₈	41/4	5	17/8	11/32	13/16
CESD4233 CESD4234	131/2	95/8	61/4	71/4	3	13/32	1 ³ / ₁₆



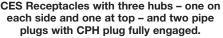
CPH			
Cat. #	а	b	С
CPH7713	6	23/8	45/16
CPH7913	67/16	23/8	43/4
CPH7714	6	23/8	45/16
CPH7914	67/16	23/8	43/4
CPH7733	73/4	23/4	5
CPH7933	81/8	23/4	5 ³ / ₈
CPH7734	73/4	31/16	5
CPH7934	81/8	31/16	53/8

CES and CESD Arktite® Receptacles

Delayed Action Circuit Breaking CPH Plugs

CESD - Cl. I, Div. 1 & 2, Group D* CES - Cl. I, Div. 1 & 2, Groups C, D Explosionproof Wet Locations **Factory Sealed**







CES Receptacles with three hubs - one on CESD Receptacles with vertical through feed hubs and one pipe plug. Removable threaded cover at top to facilitate pulling wires.

CES/CESD Receptacles

Hub Size (In.)	Circuit	Phase	Max. HP	Max. Amps	Volts at 60 Cycles AC	CES Cat. #	CESD Cat. #
3/4	2-wire, 3-pole	1	1/ ₂ 1 1/ ₂	7 30	480† 120 to 240	CES2213	CESD2213
3/4	3-wire, 4-pole	3	1 3	7 30	480† 120 to 240	CES2214	CESD2214
11/4	2-wire, 3-pole	1	3	30 60	480† 120 to 240	CES4233	CESD4233
1 1/4	3-wire, 4-pole	3	5	30 60	480† 120 to 240	CES4234	CESD4234



CPH Plugs with mechanical cable grip and neoprene bushing.

CPH Plugs

	90				Cable Diameter			
Circuit	Phase	Max. HP	Max. Amps	Volts at 60 Cycles AC	.375 to .875	.500 to .875	.875 to 1.375	
2-wire, 3-pole	1	1/ ₂ 1 1/ ₂	7 30	480† 120 to 240	CPH7713		CPH7913	
3-wire, 4-pole	3	1 3	7 30	480† 120 to 240	CPH7714		CPH7914	
2-wire, 3-pole	1	3	30 60	480† 120 to 240		CPH7733	СРН7933	
3-wire, 4-pole	3	5	30 60	480† 120 to 240		CPH7734	CPH7934	

[†]CSA certified units are rated at 600 volts.

^{*}In U.S. CESD are also suitable for Class I, Group C when used with immediately adjacent seals.





Plugs and Receptacles Industrial Heavy Duty Interlocked Non-hazardous

Description	Page No.
Application/Selection	see pages 1282-1283
Interlocked Receptacle with -	
Disconnect Switch	
WSR 30, 60, 100A Aluminum	see page 1284
WSRD 30, 60, 100A Sheet Metal	see page 1284
WSRDW 30, 60, 100A Viewing Window	see page 1284
WSRD SM S901 Stainless Steel	see pages 1286-1288
Rotary Switch	
CSR 30 & 60A Non-metallic NEMA 4X	see pages 1290-1292
WSQC 30 & 60A Aluminum	see page 1293
Watertight Krydon® NEMA 4X	
NSR 30, 60 & 100A Switch	see page 1296
NBR 30, 60 & 100A Breaker	see page 1294



Industrial Heavy Duty Interlocked Application and Selection

Applications:

- Where extra protection is a requirement; interlocked units provide dead front receptacles; connection cannot be made or broken when unit is under load
- In areas where dirt, moisture, and corrosion are a problem; to supply power for portable electrical equipment and provide safe disconnect means and short circuit protection

Considerations for Selection:

Environmental:

- The environment of the enclosure location in terms of NEMA/EEMAC type required
- Material and construction to withstand rough usage and corrosive atmospheric conditions

Electrical:

- Sufficient current carrying capacity to meet load requirements
- Compatibility with electrical system (new or existing installations)
- Interchangeability of plugs with hazardous and non-hazardous area receptacles

Function:

 Switch vs. circuit breaker See "Quick Selector Chart" below and "Interchangeability Chart" on next page.

Options:

 Special polarity and conduit arrangements are available to meet specific needs. See individual listing pages for details.

Quick Selector Chart

Series	Receptacle Interlocked With	NEMA/EEMAC Rating	Mating Plug	Electrical Characteristics	
CSR	Disconnect switch	3, 4X, 12	APJ/NPJ	Circuit breaker: 30, 60 amp. 600VAC Fusible or non-fusible	Receptacle: 30, 60 amp. 600VAC 3-wire, 4-pole
NBR	Circuit breaker	3, 12	APJ/NPJ	Circuit breaker: 100 amp. frame size 250VDC/600VAC 3-pole	Receptacle: 30, 60, 100 amp. 250VDC/600VAC 3-wire, 3-pole 3-wire, 4-pole
NSR	Disconnect switch	3, 12	APJ/NPJ	Switch: 30, 60, 100 amp. 250VDC/240VAC 600VAC 3-pole Fusible or non-fusible	Receptacle: 30, 60, 100 amp. 250VDC/600VAC 3-wire, 3-pole 3-wire, 4-pole
WSR	Disconnect switch	3R, 4, 12	APJ/NPJ	Switch: 30, 60, 100 amp. 250VDC/240VAC 600VAC 3-pole Fusible or non-fusible	Receptacle: 30, 60, 100 amp. 250VDC/600VAC 3-wire, 3-pole 3-wire, 4-pole
WSRD	Disconnect switch	3R, 12	APJ/NPJ	Switch: 60 amp. 250VDC/240VAC 600VAC 3-pole Fusible or non-fusible	Receptacle: 60 amp. 250VDC/600VAC 3-wire, 3-pole 3-wire, 4-pole

Plugs and Receptacles

Industrial Heavy Duty Interlocked Interchangeability Chart

Interchangeability Chart

Many of the plugs listed in this section can be used interchangeably with receptacles from other sections, both in hazardous and non-hazardous areas, **provided electrical rating and style of plug and receptacle are the same.** The following table is a summary of possible combinations.

Plugs Shown in Section 3P	Can be Used with these Receptacle Series	Listed in Section	Plug & Receptacle Electrical Rating
AP	AR	1P	200 and 400 amp. 3-wire, 4-pole
APJ/NPJ	AR DBR, EBBR FSQ, EPC, EPCB	1P 4P 4P	30, 60, 100 amp. 3-wire, 3-pole 3-wire, 4-pole
SP	BHR	4P	30, 60, 100 amp. 2-wire, 3-pole 3-wire, 4-pole 4-wire, 5-pole



WSR, WSRD, WSRDW Interlocked **Arktite® Receptacles with Enclosed Disconnect Switches**

30. 60. 100A NEMA 3, 3R, 4, 12 Raintight Watertight Corrosion-Resistant

WSR



Aluminum NEMA 3R, 4, 12

Applications:

- The WSR and WSRD disconnect switches are used as a service outlet for portable or fixed electrical equipment generators, compressors, welders, etc.
- · They are designed for use in nonhazardous areas where dust, moisture and corrosion may be a problem.
- · Designed for flush or surface mounting.
- A fusible type switch, when used, also provides short circuit protection.

Features:

WSR and WSRD:

- · Switches are NEMA type HD heavy duty 3-pole, with visible blades; a quick make-and-break mechanism with reinforced, positive pressure type blade and jaw construction. Fusible types have fuse clips with steel reinforcing springs of positive pressure type. Pressure connectors are used for wire connectors.
- For maximum safety, the spring door receptacle at the bottom of the unit is mechanically interlocked with the switch operating mechanism. The switch cannot be closed until the plug is fully inserted and the plug cannot be withdrawn or inserted unless the switch is open. With the switch open, accidental plug withdrawal is prevented by the interlock mechanism. Withdrawal can only be accomplished by activation of the interlock release lever located on the receptacle.
- Enclosures are compact and rectangular in shape with a gasketed, hinged door.
- Enclosure, handle and other exterior parts are corrosion resistant.

WSRD



Sheet Metal **NEMA 3R, 12**

• The switch enclosure covers are interlocked with the body and operating mechanism and cannot be opened when the plug is engaged and the switch is closed ("ON"). When the switch is open, the switch cannot be put in a closed ("ON") position with the door open.

WSR:

- Mounting lugs may be rotated 90° or moved to the vertical centerline portion for pole mounting.
- · Side hinged covers are retained in a closed position by compression spring draw-pull catches, which permit the opening or closing of the cover without
- The switch operating handle may be padlocked in the "ON" or "OFF" position, thereby preventing unauthorized operation of the switch and/or opening of the enclosure. Up to three padlocks may be used. In addition, a unique hinge arrangement has been devised to allow the door of the unit to be padlocked. This feature allows operation while preventing unqualified or unauthorized entry.

Certifications and Compliances:

- NEMA 3R, 4, 12 (enclosure)
- UL Standard 98

WSRD:

- NEMA 3R, 12
- UL Standard 98

WSRDW



Sheet Metal Viewing Window **NEMA 3R, 12**

Standard Materials:

WSR and WSRD:

- · Receptacle housings and plug exteriors copper-free aluminum
- Insulation (plug and receptacle) fiberglass-reinforced polyester
- Pressure contacts brass
- Crimp/solder contacts leaded red brass

WSR:

- Enclosure copper-free aluminum
- Operating handle copper-free aluminum
- Other exterior parts stainless steel WSRD:
- Enclosure sheet steel
- Operating handle sheet steel
- Other exterior parts stainless steel

Standard Finishes:

- Copper-free aluminum WSR enclosure, plug exteriors - natural
- Leaded red brass electro-tin-plate
- Brass natural
- Sheet steel baked grey enamel
- Fiberglass-reinforced polyester natural

Electrical Rating Ranges:

- 3 and 4 pole; fusible or non-fusible; 240 VAC, 250 VDC; 600 VAC
- 30, 60, 100 amperes
- 7½ to 75 HP

Options:

Description Interiors rotated 22½° to the right (viewed from face).....

S4

Suffix

Auxiliary switch, 600 VAC-DC heavy duty pushbutton station rating, can be supplied, and its contacts will close after safety switch contacts open and close before safety switch opens...... \$483



<u>မှ</u>

WSR, WSRD, WSRDW Interlocked Arktite® Receptacles with Enclosed Disconnect Switches

APJ/NPJ Plugs

30, 60, 100A NEMA 3, 3R, 4, 12 Raintight Watertight Corrosion-Resistant

			WSR				WSRD‡■ For vie	wing window	see note 2		
System	Amps	Amps	Amps	Conduit Opening Sizes§	240VAC 600VAC 250VDC Cat. #	Max. HP Rating 240VAC	Max. HP Rating 480VAC	Max. HP Rating 600VAC	600VAC 250VDC Cat. #	Max.† HP Rating 480VAC	Max.† HP Rating 600VAC
3-Wire, 3-Pole Style 1, Fusible	30 60 100	1 1½ 1½	WSR3351* WSR6351* WSR10351*	7½ 15 30	15 30 60	20 50 75	WSRD3351* WSRD6351* WSRD10351*	15 30 60	20 50 75		
3-Wire, 4-Pole Style 2, Fusible	30 60 100	1 1½ 1½	WSR3352* WSR6352* WSR10352*	7½ 15 30	15 30 60	20 50 75	WSRD3352* WSRD6352* WSRD10352*	15 30 60	20 50 75		
3-Wire, 3-Pole Style 1, Non- fusible	30 60 100	1 1½ 1½	WSR33541 WSR63541 WSR103541	7½ 15 30	15 30 60	20 50 75	WSRD33541 WSRD63541 WSRD103541	15 30 60	20 50 75		
3-Wire, 4-Pole Style 2, Non- fusible	30 60 100	1 1 ¹ / ₄ 1 ¹ / ₂	WSR33542 WSR63542 WSR103542	7½ 15 30	15 30 60	20 50 75	WSRD33542 WSRD63542 WSRD103542	15 30 60	20 50 75		

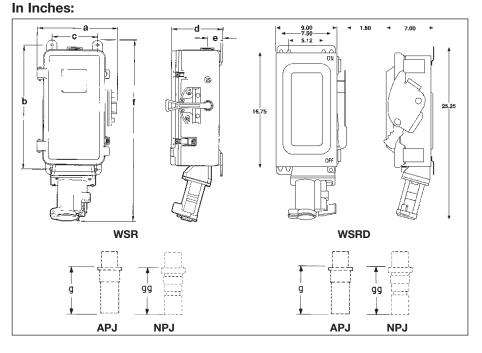
^{*}Arranged for NEC Class H fuses. May be field converted to NEC Class J fuses.

APJ/NPJ Plugs

Amps	Max. Volts	Outside Dia. of Cable, Flexible Conduit or Armored Cable	Style 1†† 3-wire, 3-pole Cat. #	Style 2†† 3-wire, 4-pole Cat. #
30	250 DC 600 AC	0.60 to 1.20 0.55 to .070 0.70 to 0.85	APJ3375	APJ3485 NPJ3483 NPJ3484
60	250 DC 600 AC	0.75 to 1.45 0.75 to 1.07 1.07 to 1.35	APJ6375	APJ6485 NPJ6484 NPJ6485
100	250 DC 600 AC	1.00 to 1.70 0.93 to 1.21 1.21 to 1.50	APJ10377	APJ10487 NPJ10486 NPJ10487

††Style 1 - Grounded through shell. Style 2 - Grounded through extra pole and shell. For a detailed description of these grounding methods, see page 1230.

Dimensions



WSR Dims. 30 Amps 60 Amps 100 Amps 113/4 113/4 147/8 b 201/16 201/16 265/16 С 69/16 69/16 99/16 d 71/4 71/4 81/4 215/32 215/32 27/8 е 2711/16 2811/16 353/8 g $4^{3}/_{4}$ 51/4 71/4 613/16 73/4 Mtg. Holes 3/8 7/16

Dim. "g" and "gg" are exposed portion of plug when engaged with receptacle.

WSRD

Dims.	60 Amps
g	5 ¹³ / ₁₆
gg	6 ¹³ / ₁₆
Mtg. Holes	⁵ / ₁₆

Dim. "g" and "gg" are exposed portion of plug when engaged with receptacle.

[§]Furnished with reducer which may be removed to obtain one size larger opening. Locknut and bushing used must meet NEC requirements (WSR only). †Ratings of unfused and fusible switches with time delay fuses.

[■] Viewing window – add "W" to prefix, i.e.: WSRDW6352.

[‡]Conduit entrances not furnished.

IP66

30, 60 and 100 Amp

Enclosure Type 3, 4, 4X, 12

Watertight Corrosion-Resistant

UL and cUL Listed

WSRD SM S901 Series Stainless Steel Arktite®

Fused and Non-fused

Cooper Crouse-Hinds Arktite Stainless Steel Interlocks prevent engagement and disengagement of the plug under load, providing safe portable connections and extended product life.

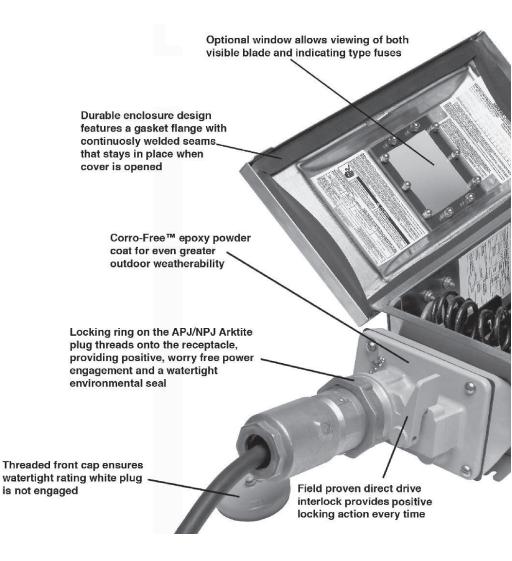
Interlocked Receptacles

Available in 30-100 Amp in both fused and non-fused versions, the Stainless Steel Interlock is rated Enclosure Type 4X watertight and features an optional viewing window.

Arktite Stainless Steel Interlocked Receptacles:

- Supply power to portable or fixed electrical equipment such as welders, compressors, conveyors, portable tools, lighting systems and similar equipment.
- Are used in damp or corrosive locations.
- · Are ideal for use in wet locations and hosedown areas.





Additional Features and Benefits:

- Heavy duty Arktite receptacle is compatible with existing Cooper Crouse-Hinds Arktite plugs of same rating and configuration
- Self-wiping, naval brass contacts in receptacle assure reliable performance and long dependable life
- Stainless steel interior hardware
- Ground bar supplied as standard and connected to 4th wire in receptacle
- · UL and cUL Listed

Ordering Information: 3-Pole, 4-Wire - 600 VAC

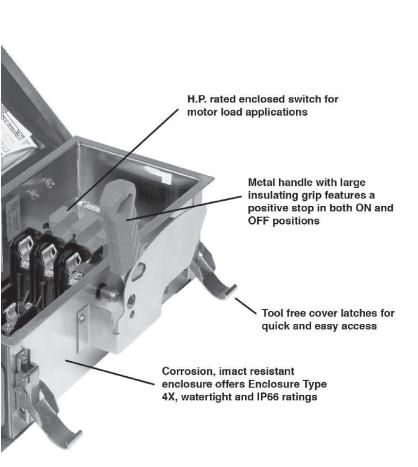
Amps	Cat. #	Description	Weight (lbs.)	Mating Arktite Plug Cat. #
30	WSRDW3352 SM S901	Fused w/Window	24	APJ3485 & NPJ3485
30	WSRD33542 SM S901	Non-fused	22	APJ3485 & NPJ3485
30	WSRDW33542 SM S901	Non-fused w/Window	22	APJ3485 & NPJ3485
60	WSRDW6352 SM S901	Fused w/Window	30	APJ6485 & NPJ6485
60	WSRD63542 SM S901	Non-fused	29	APJ6485 & NPJ6485
60	WSRDW63542 SM S901	Non-fused w/Window	29	APJ6485 & NPJ6485
100	WSRDW10352 SM S901	Fused w/Window	36	APJ10487 & NPJ10487
100	WSRD103542 SM S901	Non-fused	35	APJ10487 & NPJ10487
100	WSRDW103542 SM S901	Non-fused w/Window	35	APJ10487 & NPJ10487



Cooper Crouse-Hinds

30, 60 and 100 Amp Enclosure Type 3, 4, 4X, 12 IP66 UL and cUL Listed

Fused and Non-fused



Certifications and Compliances:

- UL Listed (UL Standards 98, 1682)
- cUL Listed (Certified by UL to CSA Standards C22.2 Nos. 4, 182.1)
- Enclosure Type 3, 4, 4X, 12
- IP66 Enclosure

Standard Materials:

- Enclosure Type 304 stainless steel
- Hardware stainless steel
- Receptacle Housing aluminum
- Power Contacts naval brass
- Interlock Mechanism stainless steel

Standard Finishes:

- Stainless Steel natural
- Aluminum Corro-free[™] epoxy powder
- Brass natural

Options:

Description	Suffix
Factory Installed Auxiliary Contacts	S483
Rotated Interior (22½° to right)	S4



Watertight

Corrosion-Resistant

Optional window allows viewing of both visible blade and indicating type fuses.



Plug locks into receptacle, providing positive, worry-free power engagement as well as watertight protection.



Complies with OSHA lockout/tagout requirements.



Heavy-duty, epoxy coated cast aluminum receptacle with stainless steel interlocking mechanism for superior durability and corrosion resistance.



Arktite® WSRD SM S901 Stainless Steel Interlocked Receptacles

30, 60 and 100 Amp Enclosure Type 3, 4, 4X, 12 **IP66** UL and cUL Listed

Watertight Corrosion-Resistant

Fused and Non-fused

Horsepower Ratings

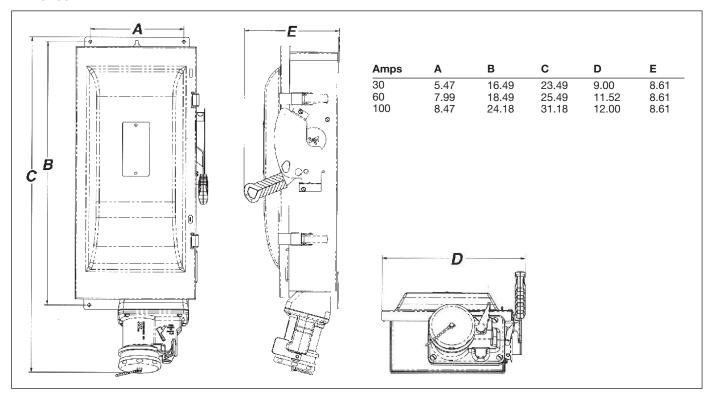
			240 VAC	240 VAC	480 VAC	480 VAC	600 VAC	600 VAC	250
Cat. #	Amps	Fusing	(1 PH)	(3 PH)	(1 PH)	(3 PH)	(1 PH)	(3 PH)	VDC
WSRD33542 SM S901	30	Non-fused	5	10	7.5	20	10	30	5
WSRDW33542 SM S901	30	Non-fused	5	10	7.5	20	10	30	5
WSRDW3352 SM S901	30	Fused	1.5 (3)	3 (7.5)	3 (7.5)	5 (15)	3 (10)	7.5 (20)	5
WSRD63542 SM S901	60	Non-fused	10	20	20	50	25	60	10
WSRDW63542 SM S901	60	Non-fused	10	20	20	50	25	60	10
WSRDW6352 SM S901	60	Fused	3 (10)	7.5 (15)	5 (20)	15 (30)	10 (25)	15 (50)	10
WSRD103542 SM S901	100	Non-fused	15	40	30	75	40	100	20
WSRDW103542 SM S901	100	Non-fused	15	40	30	75	40	100	20
WSRDW10352 SM S901	100	Fused	7.5 (15)	15 (30)	10 (30)	25 (60)	15 (40)	30 (75)	20

Values for Non-Fused units are maximum horsepower.

Values for Fused units are standard horsepower with standard fuse and (maximum horsepower with time delay).

Dimensions

In Inches:





Fused and Non-fused

30, 60 and 100 Amp Enclosure Type 3, 4, 4X, 12 IP66 Watertight Corrosion-Resistant

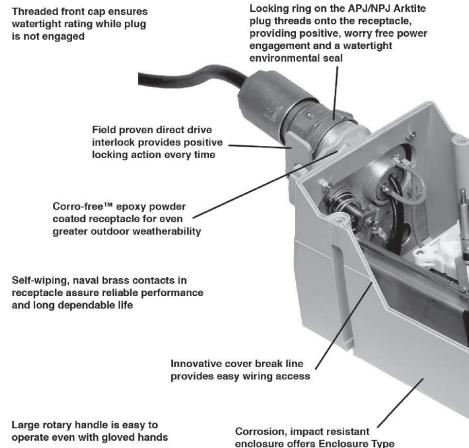
UL and cUL Listed

CSR Series Compact Interlocked Arktite® Receptacles

Cooper Crouse-Hinds interlocked receptacles prevent engagement and disengagement of the plug under load, providing safe portable connections and extended product life.

Arktite Compact Interlocked Receptacles are Used:

- To supply power to portable or fixed electrical equipment such as welders, compressors, conveyors, portable tools, lighting systems and similar equipment.
- In damp or corrosive locations.
- · In wet locations.
- In hosedown areas.



4X, watertight, IP66 rating



Additional Features and Benefits:

- Enclosure Type 4X, Watertight, IP66.
- Compact enclosure is designed to fit into the web of an I-beam.
- Heavy duty Arktite® receptacle is compatible with existing Cooper Crouse-Hinds Arktite® plugs of same rating and configuration.
- Bussmann® CubeFuse™ with Indicator the world's first "finger-safe" industrial power fuse.
- Front mounted handle permits the interlocked receptacles to be easily mounted side by side or in tight spots.
- Molded-in-place mounting feet require only four screws to mount the entire unit.
- UL and cUL Listed.

Ordering Information: 600 VAC

Amps	Configuration	Hub Size	Fusing	Cat. #	Mating Cat. #
30	3W, 4P	1"	Fused	CSR3352	APJ3485/NPJ3484
30	3W, 4P	1"	Non-fused	CSR33542	APJ3485/NPJ3484
60	3W, 4P	11/4"	Fused	CSR6352	APJ6485/NPJ6484
60	3W, 4P	11/4"	Non-fused	CSR63542	APJ6485/NPJ6484

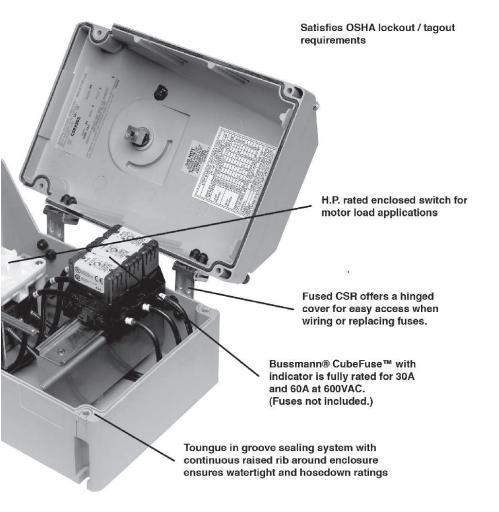


Arktite® CSR Series Non-metallic Interlocked Receptacles

Fused and Non-fused

30, 60 and 100 Amp Enclosure Type 3, 4, 4X, 12 UL and cUL Listed

Watertight Corrosion-Resistant



Certifications and Compliances:

- UL Listed (UL Standards 508, 1682)
- cUL Listed (Certified by UL to CSA Standards C22.2 Nos. 14, 182.1)
- Enclosure Type 3, 4, 4X, 12
- IP66 Enclosure

Standard Materials:

- Enclosure fiber reinforced polyester
- Hardware stainless steel
- Receptacle Housing aluminum
- Power Contacts naval brass
- Interlock Mechanism stainless steel

Standard Finishes:

- Aluminum Corro-free[™] epoxy powder
- Stainless Steel natural

- Brass natural

Options:

Description	Suffix
Factory Installed Auxiliary Contacts	S483
Rotated Interior (22½° to right)	S4

Horsepower Ratings

Amps	250 VAC	480 VAC	600 VAC	
30	10 HP	20 HP	25 HP	
60	20 HP	40 HP	40 HP	





Fully rated for 30A and 60A at 600 VAC. For use with Bussmann CubeFuse. Fuses not included.



Plug locks into receptacle, providing positive, worry-free power engagement as well as watertight protection.



Complies with OSHA lockout/ tagout requirements.



Heavy-duty, epoxy coated cast aluminum receptacle with stainless steel interlocking mechanism for superior durability and corrosion resistance.

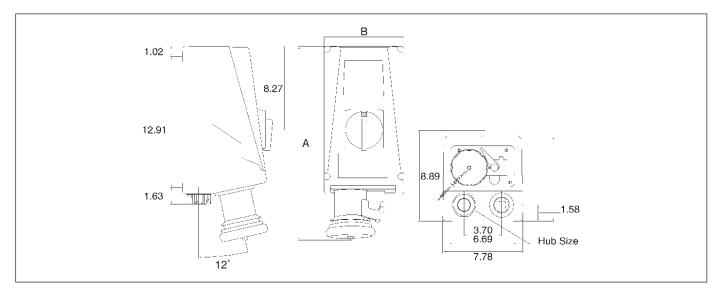
Arktite® CSR Series Non-metallic Interlocked Receptacles

Fused and Non-fused

30, 60 and 100 Amp Enclosure Type 3, 4, 4X, 12 IP66 UL and cUL Listed

Watertight Corrosion-Resistant

Dimensions In Inches:



Amps	Style	Dimension A	Dimension B	Hub Size
30	Fused	18.26	8.00	1"
30	Non-fused	18.26	7.87	1"
60	Fused	19.26	8.00	11/4"
60	Non-fused	19.26	7.87	11/4"

WSQC Interlocked Arktite® Receptacles with Enclosed Switches

APJ Plugs

Applications:

WSQC dead front interlocked receptacles with APJ, NPJ, BP or FP plugs are used:

- To supply power to portable electrical equipment such as hand lamps, lighting systems, power tools, conveyors, welders, compressors, etc.
- In damp, wet or corrosive locations
- Indoors or outdoors in non-hazardous areas
- In locations where mounting area is confined and compact equipment is required

Features:

- NEMA 3R, 12
- · Rainproof, dust-tight
- Available in 30 and 60 amps
- · Horsepower rated switch
- Smallest footprint for interlocked receptacles
- Padlockable in OFF position; meets OSHA lockout/tagout requirements
- Compatible with Arktite® APJ aluminum and NPJ Krydon® material non-metallic plugs

Certifications and Compliances:

- NEMA 3R, 12
- CSA Standard: C22.2 No. 14, 182.1
- UL and cUL Listed

Standard Materials:

- Enclosure copper-free aluminum
- Cover and spring door copper-free aluminum
- Insulator Krydon® material
- Contacts brass
- Cover gasket neoprene



Raintight

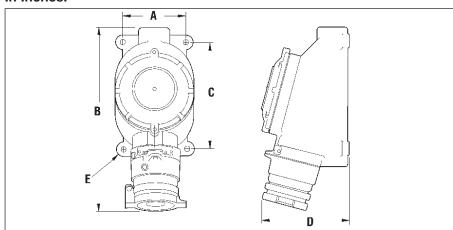
Dust-tight

30 and 60A

NEMA 3R, 12

600 VAC

Dimensions In Inches:



Amps	Α	В	С	D	E
30A	31/8	93/4	_	53/4	3/8
60A	5	147/16	81/2	7	13/32

Horsepower Ratings:

	Single Phase				Three	Phase		
Amps	120V	240V	480 V	600V	120V	240 V	480 V	600V
30A	2	5	71/2	71/2	3	71/2	15	15
60A		10	25	30		10	25	30

Ordering Information:

Amps	Hub	Config.	Cat. #
	3/4"	2W3P	WSQC2330
	1"	2W3P	WSQC3330
30A	3/4"	3W4P	WSQC2340
	1"	3W4P	WSQC3340
60A	11/2"	2W3P	WSQC5630
	11/2"	3W4P	WSQC5640

Options:

Description	Suffix
 Interior rotated 22½° to the right 	
(viewed from face)	S 4
ev: WSOC5640 \$4	

NBR Arktite® Interlocked Receptacles with Enclosed Circuit Breakers

NEMA 3, 3R, 4*, 4X*, 12 Watertight Corrosion-Resistant

APJ/NPJ Arktite Plugs

Applications:

NBR Arktite interlocked receptacles with enclosed circuit breakers are used:

- To supply power and provide short circuit protection, thermal overload protection, and a disconnect means for portable electrical equipment such as motor generator sets, compressors, conveyors, and other similar equipment
- In locations where corrosion is present such as in offshore and marine locations, pulp and paper mills, chemical plants, food processing, and sewage treatment plants
- Indoors and outdoors in damp, wet or hosedown locations

Features:

- Enclosures are made of Krydon® high impact strength fiberglass-reinforced polyester material having excellent resistance to corrosion and heat
- Receptacles are mechanically interlocked with circuit breakers which provide a disconnect means, short circuit protection, and thermal time delay overload protection
- For maximum safety, the spring door receptacle at the bottom is mechanically interlocked with the circuit breaker operating mechanism. The circuit breaker cannot be closed until the plug is fully inserted and the plug cannot be withdrawn unless the breaker is open
- Enclosure has hinged access door for easy wiring and maintenance. Three screws, hidden behind access door in door frame, prevent disassembly when door is locked
- Enclosure access door is mechanically interlocked with operating handle and cannot be opened unless operating handle operator is in "OFF" position
- A Krydon material hub (not mounted) is supplied with each enclosure as follows:

Rating	Hub Size (In.)	Cat. #
30A	3/4	NHUB2
60A	11/4	NHUB4
100A	2	NHUB6

For alternate hub sizes, see page 646

- Receptacle has self-closing spring door assembly to provide environmental protection
- Operating handle can be padlocked in "OFF" position. Breaker is trip-free of handle and will open under short circuit or overload when handle is in the "ON" position
- Provided with top and bottom mounting feet which may be rotated 90° to vertical or horizontal mounting positions

Certifications and Compliances:

- NEMA 3, 3R, 4*, 4X*, 12
- ANSI/UL Standard: 489
- UL Standard: 1682
- CSA

Standard Materials:

- Enclosure, covers and operating handles
 – Krydon fiberglass-reinforced polyester material
- Operating shafts stainless steel
- Receptacle housings copper-free aluminum
- Receptacle insulators Krydon material
- Crimp/solder contacts leaded red brass

Standard Finishes:

- Copper-free aluminum baked on powder epoxy
- · Stainless steel natural
- Enclosure natural
- Receptacle insulators natural (red)
- Brass natural
- Leaded red brass electro-tin-plated

Electrical Rating Range:

- Receptacles 30, 60 and 100 amperes
- Circuit Breakers 100 ampere frame size

Note: For additional dimensional data, see page 496, enclosure catalog number NCB1024.

Options:

Description Suffix

S4



Interchangeability of Plugs With Other Non-hazardous and Hazardous Location Receptacles:

- Plugs listed for use with NBR assemblies are standard Arktite APJ/NPJ plugs. Other standard APJ/NPJ and CPH plugs of the same rating, style and number of poles may be used with NBR receptacles, as well as EBBR, EPC and EPCB receptacles listed in Section 4P
- Portable equipment, suitable for the locations and equipped with the proper plug, can be used with non-hazardous rated AR receptacles, DBR and WSR interlocked receptacles located in non-hazardous locations, with EBBR, EPC and EPCB receptacles for Class I, Groups B, C, D hazardous locations, with DR and DBR interlocked receptacles for Class II, Groups F, G hazardous locations, and with NBR/NSR interlocked receptacles for wet and corrosive locations

NBR Arktite® Interlocked Receptacles with Enclosed Circuit Breakers

3-Pole, 600 VAC NEMA 3, 3R, 4, 4X, 12 Watertight Corrosion-Resistant

APJ/NPJ Arktite Plugs▲

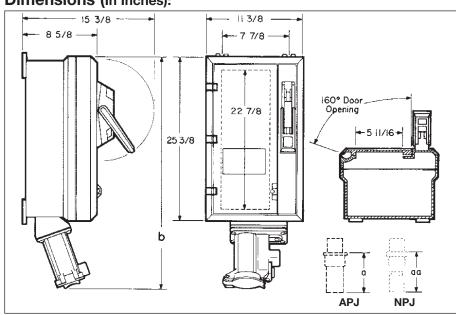
100 Ampere Frame Size with Non-interchangeable Trip‡§

•	Enclos	sure		
Receptacle With Spring Door Housing	Hub Size (In.)	Ckt. Brkr. Amps	Without Circuit Breaker Cat. #	With Cutler-Hammer Circuit Breaker Cat. #
Style 1†				
30 amp., 3-wire, 3-pole	3/4	20 30 40 50	NBR53731	NBR53731 WT20 3 NBR53731 WT30 3 NBR53731 WT40 3* NBR53731 WT50 3*
60 amp., 3-wire, 3-pole	11/4	50 60 70 90 100	NBR56731	NBR56731 WT50 3 NBR56731 WT60 3 NBR56731 WT70 3* NBR56731 WT90 3* NBR56731 WT100 3*
100 amp., 3-wire, 3-pole	2	60 70 90 100	NBR51731	NBR51731 WT60 3 NBR51731 WT70 3 NBR51731 WT90 3 NBR51731 WT100 3
Style 2†				
30 amp., 3-wire, 4-pole	3/4	20 30 40 50	NBR53742	NBR53742 WT20 3 NBR53742 WT30 3 NBR53742 WT40 3* NBR53742 WT50 3*
60 amp., 3-wire, 4-pole	11/4	50 60 70 90 100	NBR56742	NBR56742 WT50 3 NBR56742 WT60 3 NBR56742 WT70 3* NBR56742 WT90 3* NBR56742 WT100 3*
100 amp., 3-wire, 4-pole	2	60 70 90 100	NBR51742	NBR51742 WT60 3 NBR51742 WT70 3 NBR51742 WT90 3 NBR51742 WT100 3

*Circuit breaker trip rating may exceed receptacle rating for welding equipment applications only, as higher trip rating may not protect wiring.
†Style 1 – Grounded through shell. Style 2 – Grounded through extra pole and shell. For a detailed description of these

▲ Pressure connectors are standard. Crimp/solder type terminators are optionally available for 3 and 4-pole 30, 60 and 100 ampere. For details, see page 1233. To specify, add the suffix "T" to the catalog number. For example: APJ3375-T (Plug).

Dimensions (In Inches):



APJ/NPJ Plugs 600 VAC With Cable Grip and Neoprene **Bushing**



APJ



NPJ

Amps	Cable O.D. Range		Style 1† 3-wire, 3-pole Cat. #	Style 2† 3-wire, 4-pole Cat. #
	0.60 to 1	.20	APJ3375	APJ3485
30	0.55 to 0	.70		NPJ3483
	0.70 to 0	.85		NPJ3484
	0.75 to 1	.45	APJ6375	APJ6485
60	0.75 to 1	.07		NPJ6484
	1.07 to 1	.35		NPJ6485
	1.00 to 1	.70	APJ10377	APJ10487
100	0.93 to 1	.21		NPJ10486
	1.21 to 1	.50		NPJ10487

Amps	b	а	aa
30	313/8	413/16	7
60	33	5 ¹³ / ₁₆	613/16
100	333/4	65/8	73/4

Dim. "a" and "aa" are exposed portion of plug when engaged with receptacle.

grounding methods, see page 1231.

[§]Also available with interchangeable trip breakers. Specify on order. ‡ For detailed information on circuit breaker selection, see Section 3C.

NEMA 3, 3R, 4*, 4X*, 12 Watertight Corrosion-Resistant

APJ/NPJ Arktite Plugs

Applications:

NSR Arktite interlocked receptacles with enclosed disconnect switches are used:

- To provide a power disconnect for fixed or portable electrical equipment such as welders, generators and compressors where the switch will be subject to frequent operation
- To provide short circuit protection when a fusible switch is needed
- In non-hazardous indoor or outdoor areas where corrosion, dust, hosedown and moisture may be a problem such as in offshore and marine locations, pulp and paper mills, chemical plants, sewage treatment plants and food processing facilities

Features:

- Enclosures are made of Krydon® high impact strength fiberglass-reinforced polyester material having excellent resistance to corrosion and heat
- Switches are NEMA type HD heavy duty 3-pole, enclosed blade; a quick makeand-break mechanism with reinforced, positive pressure type blade and jaw construction. Fusible switches have fuse clips with steel reinforcing springs
- For maximum safety, the spring door receptacle at the bottom is mechanically interlocked with the switch operating mechanism. The switch cannot be closed until the plug is fully inserted and the plug cannot be withdrawn unless the switch is open
- Switch enclosure access door is mechanically interlocked with switch and cannot be opened unless switch operator is in "OFF" position
- Enclosure has hinged access door for easy wiring and maintenance. Three screws, located behind access door in door frame, prevent disassembly when door is locked
- A *Krydon* material hub (not mounted) is supplied with each enclosure as follows:

Rating	Hub Size (In.)	Cat. #
30A	3/4	NHUB2
60A	11/4	NHUB4
100A	2	NHUB6

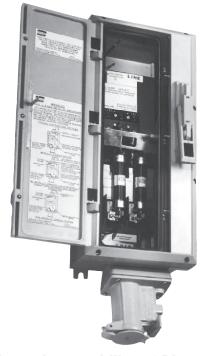
For alternate hub sizes, see page 646

- Receptacle has self-closing spring door assembly to provide environmental protection
- Mounting feet may be rotated 90° to horizontal or vertical mounting positions
- Switch operating handle may be padlocked in the "OFF" position, preventing unauthorized operation of the switch

Certifications and Compliances:

• NEMA 3, 3R, 4*, 4X*, 12

• UL Standard: 1682, 98



Interchangeability of Plugs With Other Non-hazardous and Hazardous Location Receptacles:

- Plugs listed for use with NSR assemblies are standard *Arktite* APJ/NPJ plugs.
 - Other standard APJ/NPJ and CPH plugs of the same rating, style and number of poles may be used with NSR receptacles, as well as with EBBR, EPC and EPCB receptacles listed in Section 4P
- Portable equipment, suitable for the locations and equipped with the proper plug, can be used with non-hazardous rated AR receptacles, DBR and WSR interlocked receptacles located in nonhazardous locations, with EBBR, EPC and EPCB receptacles for Class I, Groups B, C, D hazardous locations, with DR and DBR interlocked receptacles for Class II, Groups F, G hazardous locations, and with NBR/NSR interlocked receptacles for wet and corrosive locations

Standard Materials:

- Receptacle housings copper-free aluminum
- Insulators (plug and receptacle) Krydon material
- Crimp/solder contacts leaded red brass
- Enclosure and operating handle Krydon fiberglass-reinforced polyester material
- Other exterior parts stainless steel



Standard Finishes:

- Copper-free aluminum baked-on powder epoxy
- Stainless steel natural
- Leaded red brass electro-tin-plated
- Enclosure natural (gray)
- Insulator (plug and receptacle) natural (red)

Options:

Description

Suffix

Special polarity – for use where two or more receptacles for the same ampere rating, style and number of poles are to be installed in the same area for use on different voltages. Receptacle interior rotated 22½° to right (viewed from face) and matching plug

S4

Hubs for other conduit sizes can be supplied. See page 646.

*30 and 60A Style 2 only.



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NSR Arktite® Interlocked Receptacles With Enclosed Disconnect Switches

APJ/NPJ Arktite Plugs††

240 and 600 VAC 250 VDC NEMA 3, 3R, 4, 4X, 12 Watertight Corrosion-Resistant

		240VAC/250VDC				600VAC/250VDC			
	Conduit Opening Sizes§	Style 1† 3-wire, 3-pole Cat. #	Style 2† 3-wire, 4-pole Cat. #	AC HP Rating	DC HP Rating	Style 1† 3-wire, 3-pole Cat. #	Style 2† 3-wire, 4-pole Cat. #	AC HP Rating	DC HP Rating
Fusible									
30	3/4	NSR331‡	NSR332‡	3	5	NSR3351*	NSR3352*	71/2	5
60	11/4	NSR631±	NSR632±	5	10	NSR6351*	NSR6352*	20	10
100	2	NSR1031‡	NSR1032‡	10	20	NSR10351*	NSR10352*	30	20
Non-Fus	ible								
30	3/4	NSR3341	NSR3342	71/2	5	NSR33541	NSR33542	20	5
60	11/4	NSR6341	NSR6342	20	10	NSR63541	NSR63542	50	10
100	2	NSR10341	NSR10342	30	20	NSR103541	NSR103542	75	20

APJ/NPJ Plugs 600VAC/250VDC, with Cable Grip and Neoprene Bushing

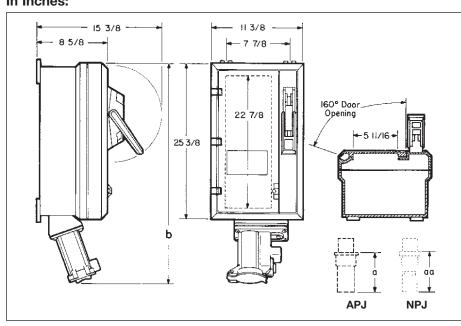




Amps	Cable O.D. Range	Style 1† 3-wire, 3-pole Cat. #	Style 2† 3-wire, 4-pole Cat. #
30	0.60 to 1.20 0.55 to 0.70 0.70 to 0.85	APJ3375	APJ3485 NPJ3483 NPJ3484
60	0.75 to 1.45 0.75 to 1.07 1.07 to 1.35	APJ6375	APJ6485 NPJ6484 NPJ6485
100	1.00 to 1.70 0.93 to 1.21 1.21 to 1.50	APJ10377	APJ10487 NPJ10486 NPJ10487

*Arranged for NEC Class H fuses. May be field converted to NEC Class J fuses. ‡Fuse clips accommodate NEC Class H fuses. For NEC Class J fuses, use 600V switches. †Style 1 – Grounded through shell. Style 2 – Grounded through extra pole and shell. For a detailed description of these grounding methods, see page 1231. §For alternate hub sizes, refer to catalog page see page 818. †Style 1 - Grounded through shell. Style 2 - Grounded through extra pole and shell. For a detailed description of these grounding methods, see page 1231 †Pressure connectors are supplied as standard. To specify crimp/solder type terminators add the suffix "T" to the catalog number. For example: APJ3375-T (Plug).

Dimensions In Inches:



Amps	b	а	aa	
30	313/8	413/16	7	
60	33	5 ¹³ / ₁₆	613/16	
100	333/4	65/8	73/4	

Dim. "a" and "aa" are exposed portion of plug when engaged with receptacle.



Plugs and Receptacles Industrial Heavy Duty Interlocked Hazardous

Description	Page No.
Application/Selection	see pages 1300-1301
Interlocked Receptacle with –	
H.P. Rated Switch	
Technical Data	see page 1302
FSQC 30A & 60A / APJ Plugs	see pages 1302-1303
FSQC 100A / APJ Plugs	see page 1304
Factory Sealed Switch	
BHR 30A, 60A & 100A / BHP Plugs	see pages 1308-1309
SRD 30A & 60A / SP Plugs	see page 1310
Circuit Breaker	
EBBR 30A, 60A, 100A	see pages 1305-1307
EPC, 30A, 60A, 100A, 200A	see page 1312
EPCB 30A, 60A, 100A	see pages 1315-1316
DBR 30A, 60A, 100A	see page 1317



Applications:

- Where extra protection is a requirement. Interlocked units provide dead front receptacles; connection cannot be made or broken when unit is under load.
- In areas made hazardous by flammable vapors, gases or dusts; to supply power for portable electrical equipment and provide safe disconnect means and short circuit protection.

Considerations for Selection:

Environmental:

- The environment of the enclosure location in terms of NEC/CEC compliance and NEMA/EEMAC type required.
- Material and construction to withstand rough usage and atmospheric conditions.

Electrical:

- Sufficient current-carrying capacity to meet load requirements.
- Compatibility with electrical system (new or existing installation).
- Interchangeability of plugs with other hazardous and non-hazardous area receptacles.

Function:

• Switch vs. circuit breaker.

Options:

 Special polarity arrangements, material options, accessories, and optional arrangements of enclosure interiors are available to meet specific application needs. See listing pages for details.

Quick Selector Chart

Series	NEC/CEC & NEMA/EEMAC Compliances	Receptacles Interlocked With	Page	Mating Plugs	Electrical Rating
BHR	Class I, Division 1 and 2, Groups B, C, D Class II, Division 1 and 2, Groups F, G Class III NEMA: 3, 4, 7BCD, 9FG, 12	Factory sealed switch	See pages 1308–1309	ВНР	30, 60, 100 amp. 480VAC 2-wire, 3-pole 3-wire, 4-pole 4-wire, 5-pole
DBR	NEC: Class II, Division 1 and 2, Groups F, G NEC: Class III NEMA/EFC: 3, 9FG, 12 CEC: Class II, Division 1 and 2, Group G CEC: Class III Encl. 3, 5	Circuit breaker	See page 1317	APJ/NPJ	Circuit breaker: 100 amp. frame size 250VDC/600VAC Receptacle: 30, 60, 100 amp. 2-wire, 3-pole 3-wire, 3-pole 3-wire, 4-pole
EBBR	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, 12	Circuit breaker	See pages 1305–1307	APJ/NPJ	Receptacle: 30, 60, 100, 150 amp. 3-wire, 4-pole
EPC	NEC: Class I, Division 1 and 2, Groups C, D NEC: Class II, Division 1 and 2, Groups F, G NEC: Class III NEMA: 3, 7CD, 9FG, 12 CEC: Class I, Division 1 and 2, Groups C, D CEC: Class II, Division 1 and 2, Group G CEC: Class III Encl. 3, 4	Circuit breaker	See pages 1312–1314	APJ/NPJ	Circuit breaker: 100 amp. frame size 480VAC/250VDC Receptacle: 30, 60, 100 amp. 2-wire, 3-pole 3-wire, 4-pole
EPC	Class I, Division 1 and 2, Group D Class II, Division 1 and 2, Groups F, G Class III NEMA: 3, 7D, 9FG, 12	Circuit breaker	See pages 1312–1314	DP	Circuit breaker: 225 amp. frame size 600VAC/250VDC Receptacle: 200 amp. 3-wire, 4-pole
EPCB	NEC: Class I, Division 1 and 2, Groups B, C, D NEC: Class II, Division 1 and 2, Groups F, G NEC: Class III NEMA: 3, 7BCD, 9FG, 12 CEC: Class I, Division 1 and 2, Groups B, C, D CEC: Class II, Division 1 and 2, Group G CEC: Class III Encl. 3, 4	Circuit breaker	See pages 1315–1316	APJ/NPJ	Circuit breaker: 100 amp. frame size 600VAC/250VDC Receptacle: 30, 60, 100 amp. 2-wire, 3-pole 3-wire, 4-pole

Plugs and Receptacles

Industrial Heavy Duty Interlocked Quick Selector and Interchangeability Chart Hazardous

Quick Selector Chart

Series	NEC/CEC & NEMA/EEMAC Compliances	Receptacles Interlocked With	Page	Mating Plugs	Electrical Rating
FSQ	NEC: Class I, Division 1 and 2, Groups B, C, D NEC: Class II, Division 1 and 2, Groups F, G NEC: Class III NEMA: 3, 7BCD, 9FG, 12 CEC: Class I, Division 1 and 2, Groups B, C, D CEC: Class II, Division 1 and 2, Groups G CEC: Class III Encl. 3, 5	Switch	See pages 1302-1304	APJ/NPJ	30A 250V/20A 600VAC 2-wire, 3-pole 3-wire, 4-pole 60 & 100 amp. 2-wire, 3-pole 3-wire, 4-pole
SRD	Class I, Division 1 and 2, Group D Class II, Division 1 and 2, Groups F, G Class III NEMA: 3, 7D, 9FG, 12	Factory sealed switch	See pages 1310–1311	5P	30 & 60 amp. 480VAC 2-wire, 3-pole 3-wire, 4-pole 4-wire, 5-pole

Interchangeability Chart

Many of the plugs listed in this section can be used interchangeably with receptacles from other sections, both in hazardous and non-hazardous areas, provided electrical rating and style of plug and receptacle are the same. The following table is a summary of possible combinations.

Plugs Shown in Section 4P	Can be Used with These Receptacle Series	Listed in Section	Plug & Receptacle Electrical Rating
	AR, NR EPC, EPCB, DBR, EBBR, CSR, FSQC	1P 4P	30, 60, 100 amp. 3-wire, 4-pole
APJ/NPJ	NBR, NSR, WSR, CSR, WSRD, WSRDW, WSQC, WSRD SM S901	3P	30, 60, 100 amp. 3-wire, 3-pole 3-wire, 4-pole
ВНР	BHR SRD	4P	30, 60, 100 amp. 2-wire, 3-pole 3-wire, 4-pole 4-wire, 5-pole
SP	BHR SRD	4P	30, 60 amp. 2-wire, 3-pole 3-wire, 4-pole 4-wire, 5-pole

CAUTION: To reduce the risk of ignition of hazardous atmospheres, do not use plugs or receptacles in Class II, Group F locations that contain electrically conductive dusts.



FSQC Arktite® Dead Front Interlocked Receptacles and Switches

APJ/NPJ Arktite Plugs

Cl. I, Div. 1 and 2, Groups B, C, D Cl. II, Div. 1 and 2, Groups F, G Cl. III NEMA/EEMAC 3, 7BCD, 9FG, 12 Explosionproof
Dust-Ignitionproof
Raintight
Wet Locations

Applications:

FSQC dead front switched interlock receptacles are used:

- To supply power to portable electrical equipment such as hand lamps, lighting systems, power tools, conveyors, welders and similar equipment.
- In areas which are hazardous due to the presence of flammable vapors or gases and combustible dusts.
- In damp, wet or corrosive locations.
- Indoors or outdoors at petroleum refineries, chemical and petrochemical plants and facilities for processing and handling grain, flour and starch.

Features:

- Compatible with Arktite® APJ aluminum and NPJ Krydon® plugs
- Switch cannot be turned "ON" until plug is fully inserted and rotated
- Plug cannot be withdrawn under load
- Cover cannot be removed when switch is "ON"
- Satisfies OSHA lockout tagout requirement
- Smallest mounting footprint for interlocks

Certifications and Compliances:

- NEMA 3, 7BCD, 9FG, 12
- NEC/CEC:
 - Class I, Division 1 & 2, Groups B, C, D Class I, Zone 1, Group IIB + Hydrogen Class II, Division 1 & 2, Groups F, G Class III
- ANSI/UL Standards: 1010 UL Listed
- CSA Standards: C22.2 No. 30 cUL Listed & C22.2 No. 159

Materials:

- Enclosure copper-free aluminum
- Cover and spring door copper-free aluminum
- Insulator Krydon®
- Contacts brass



Options:

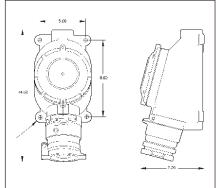
Description	Suffix
Special polarity, receptacle	
interior rotated 221/2°	S4

Interchangeability of Plugs with Other Hazardous and Non-hazardous Location Receptacles:

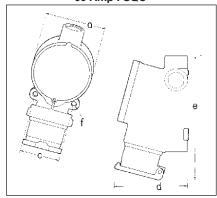
- Plugs listed for FSQC receptacles on 1043 are standard APJ/NPJ plugs. Other standard APJ/NPJ of the same rating, style and number of poles may be used with FSQC receptacles as well as with DBR, EBBR, EPC and EPCB receptacles listed in Section 2P and 4P.
- As a result, portable equipment suitable for the location and equipped with the proper plug can be used with AR series receptacles for non-hazardous areas, EBBR, EPC, EPCB, and FSQC receptacles for Class I hazardous locations; DBR receptacles for Class II hazardous locations.

Dimensions In Inches:

30 Amp FSQC



60 Amp FSQC



Dimensions

	Maximum Dimensions					
Cat. #	а	С	d	е	f	
FSQC2320, 3320						
FSQC2430, 3430	43/4	31/8	5 ³ / ₄	93/4	3/8	
FSQC2390, 3390						

FSQC Arktite® Dead Front Interlocked Receptacles and Switches

APJ/NPJ Arktite Plugs

Cl. I, Div. 1 and 2, Groups B, C, D Cl. II, Div. 1 and 2, Groups F, G Cl. III
NEMA/EEMAC 3, 7BCD, 9FG, 12

Explosionproof
Dust-Ignitionproof
Raintight
Wet Locations

FSQC Receptacles With Spring Door Through Feed Hubs

Horsepower Rating:

10.00p0		.9.					
	Single Phase						
Amps	120 V	240V	480 V	600V			
30A	2	5	71/2	71/2			
60A	_	10	25	30			
		Three	Phase				
Amps	120V	240V	480V	600V			
30A	3	71/2	15	15			
60A	_	10	25	30			



Ordering Information:

Amps	Hub	Config.	Description	Cat. #	Matching Plug
	3/4"	2W3P	2-Pole Switch	FSQC2320	APJ3385
204	9/4	3W4P	3-Pole Switch	FSQC2430	APJ3485
30A	1"	2W3P	2-Pole Switch	FSQC3320	APJ3385
		3W4P	3-Pole Switch	FSQC3430	APJ3485
604	11/2"	2W3P	2-Pole Switch	FSQC5630	APJ6385
60A		3W4P	3-Pole Switch	FSQC5640	APJ6485

FSQC for Use with Magnetic Motor Starters or Contactors

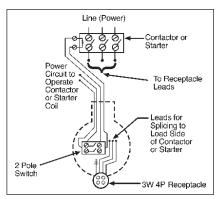
FSQC units listed below operate in the same way as standard units but are intended *only for* use with magnetic motor starters or contactors (see Wiring Diagram 1).

Receptacles have leads for splicing to conductors from the load side of contactor. The switch actuated by the plug is wired into the starter or contactor coil circuit and controls only this circuit. The starter or contactor is energized only when the plug is fully inserted and rotated to close the switch. Since the plug is inserted or withdrawn only when the switch is open, the circuit cannot be made or broken under the load.

Plugs used are standard APJ units and special polarity units listed are recommended where interchange with devices for other wiring systems is possible.

FSQC Receptacles With Spring Door Through Feed Hubs

No. of	Hub	Receptacle	Cable Dia.	Mating Plug
Poles	Size	Cat. #		Cat. #
Standard 3W, 4P 3W, 4P 3W, 4P	Configuration 3/4 1 1	on FSQC2390 FSQC3390	30.39-1.20 0.55-0.70 0.70-0.85	APJ3485 NPJ3483 NPJ3484
	Polarity Confi	guration	30.39-1.20	APJ3485 S4
	3/4	FSQC2390 S4	0.55-0.70	NPJ3483 S4
	1	FSQC3390 S4	0.70-0.85	NPJ3484 S4



Wiring Diagram 1 FSQC2390 and 3390 only

Cl. I, Div. 1 and 2, Groups B, C, D Cl. II, Div. 1 and 2, Groups F, G Cl. III

NEMA 3, 3R, 4, 4X*, 7BCD, 9FG, 12 Explosion proof

NEMA 4 Watertight

Applications:

- To supply power to portable or fixed electrical equipment such as welders, pumps, motors, machine tools, conveyors, oil rigs, mixers, grain elevators, petroleum refineries, chemical and petrochemical plants
- In hazardous areas containing flammable vapors or gases and combustible dusts
- In damp, wet or hosedown environments
- · In highly corrosive locations

Features:

- NEMA Type 4 watertight
- Suitable for Group B
- · Compact housing
- Simple operation
- Compatible with Arktite® APJ aluminium and NPJ Krydon® plugs
- H.P.-rated enclosed switch
- 4 mounting feet can be rotated for flexibility in positioning to surface
- Wiring channel provided under switch for easy wire routing to terminals
- Dual bottom-feed hubs and one top hub for convenient feed-through installation
- Bread-loose fork lugs case in place for easy removal of cover

Certifications and Compliances:

- NEMA 3, 3R, 4, 4X*, 7BCD, 12
 Class I, Divisions 1 and 2, Groups B, C, D
 Class I, Zone 1, Group IIB + H₂
 Class II, Divisions 1 and 2, Groups F, G
 Class III
- ANSI/UL Standards: 1010 and 98 UL Listed
- cUL Listed, CSA Standard C22.2 No. 30, C22.2 No. 159

*NEMA 4X when ordered with suffix S752

Materials:

- Body copper-free aluminum
- Cover copper-free aluminum
- Locking collar Feraloy® iron alloy
- Insulator Krydon® material
- · Contacts brass

Options:

• Special polarity – receptacle interior rotated 22½° to right........... \$4 (example: FSQC61040 S4)

- NEMA 4X epoxy powder coated S752 (example: FSQC61040 S752)
- Auxiliary contact......S483

Safety First:

- Power cannot be turned "on" until plug is fully inserted and Uni-Loc collar is rotated
- When Uni-Loc collar is in "on" position, plug is locked in place to prevent disengagement under load
- Cover cannot be removed while switch is "on"
- Cover-Loc™ design prevents switch from being turned "on" while cover is removed
- Uni-Loc collar aligns with lug on housing to permit OSHA lockout/tagout in the "off" position

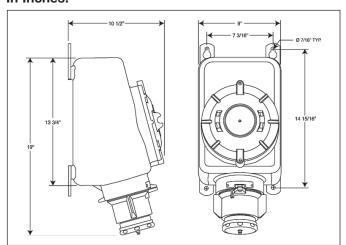
Electrical Rating:

• 100A, 600VAC

Ordering Information:

Rating	Config.	Size	Rating	Cat. #
100A, 600 VAC	3W4P	2"	50 HP @ 600V, 480V	FSQC61040

Dimensions In Inches:





4

EBBR Series Interlocked Arktite® Receptacles with Circuit Breakers

30, 60, 100 Amp Interlocked Receptacles

Cl. I, Div. 1 and 2, Groups B, C, D Cl. II, Div. 1 and 2, Groups F†, G Cl. III NEMA 3, 3R, 7BCD, 9FG, 12 Dust-Ignitionproof Raintight Wet Locations

Wet Locations

Applications:

EBBR interlocked receptacles with circuit breakers are used:

- As a service outlet for portable equipment – indoors or outdoors – in damp, wet, corrosive locations, without the need for a protective shelter.
- In areas which are hazardous due to flammable vapors, gases or combustible dust, e.g., refineries, chemical plants, and other processing and handling facilities of a hazardous nature.
- In areas where frequent washdowns are necessary or where heavy rain or water spray is prevalent.

Features:

- Rugged, corrosion resistant, cast copper-free aluminum construction.
- Accepts compatible Arktite plug of same rating and configuration.
- Mechanical interlock mechanism for dead front construction.
- Receptacles are mechanically interlocked with circuit breakers to provide disconnect means, short circuit protection and thermal time delay overload protection.
- A spring door receptacle, located at the bottom of the unit, is mechanically interlocked with the circuit breaker operating mechanism for safe and dependable operation.
- Plug and receptacle contacts cannot be made or broken under load. The circuit breaker cannot be closed until the plug is fully inserted and the plug cannot be withdrawn unless the breaker is de-energized.
- Operating handles can be padlocked in either "ON" or "OFF" positions. Breakers are trip-free of the handles and will open under short circuit or overload even if the handle is locked in the "ON" position.
- Component operating handles located through the right side wall of the body permits visual confirmation of correct component assembly and operation.
- Total compliance to the wiring and room requirements of the National Electrical Code®.
- Semi-clamshell enclosure design, with an external machined flat joint flamepath between body and cover makes interior components easily accessible.
- Minimum enclosure-to-enclosure spacing with little interference between the opened cover and an adjacent enclosure.
- Copper-free aluminum hinges allow the cover to swing well out of the way.
- Stainless steel, quick release, captive, hex head cover bolts. Stainless steel springs provide clear indication cover bolts are fully retracted from body.
- Versatile, internal operating mechanisms allow for field adjustment to accommodate popular manufacturers' breakers.



Explosionproof

- Simple, straightforward installation of breaker on pre-drilled mounting plate within enclosure.
- Neoprene cover gasket permanently attached to the cover seals out moisture.
- Bodies have top drilled and tapped entrance for power conduit (1½") plus one at the top and one at the bottom for a breather and drain (½"). Breather and drain entrances are plugged.
- · Tap-on mounting feet.

Certifications and Compliances:

• NEC:

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, 12
- UL Standard: 1203

Standard Materials:

- Body, cover, and receptacle copperfree aluminum
- Contact insulator (receptacles and plugs) – fiberglass-reinforced polyester
- Receptacle contacts leaded red brass
- Pressure contacts (plugs) brass
- Operating handle copper-free aluminum
- Operating shafts and bushings stainless steel
- Interior parts heavy gauge sheet steel, zinc plated
- Cover bolts, washer and retractile springs – stainless steel

Standard Finishes:

- Copper-free aluminum natural
- Fiberglass-reinforced polyester natural (red)
- Brass natural
- Leaded red brass electro-tin-plated
- Stainless steel natural

Electrical Rating Ranges:

- Circuit breakers 20-150 amps
- Receptacles 30, 60, 100, 150 amp
- 3-wire, 4-pole configuration

Options:

The following options are available from the factory by adding suffix to the Cat. #:

Description

Suffix

- Receptacle interior rotated 22½° to right (viewed from face) and plug changed to match.....S4
- Group B Breather and Drain......S756V
 External Powder Epoxy Finish.....S752

Grounding:

 EBBR interlocked receptacles and matching plugs are provided with an extra grounding pole for attaching a grounding wire. In addition, direct connection is provided between receptacle and metallic plug and the grounding pole. If a compatible non-metallic plug made of Krydon® fiberglass-reinforced polyester material is used, grounding is accomplished through the extra grounding pole only. If a separate grounding wire is not installed in the enclosure, grounding is accomplished through the conduit system.

†Caution: To reduce the risk of ignition of hazardous atmospheres, do not use plugs or receptacles in Class II, Group F locations that contain electrically conductive dusts.

EBBR Series Interlocked Arktite® Receptacles with Circuit Breakers

30, 60, 100 Amp Interlocked Receptacles

Cl. I, Div. 1 and 2, Groups B, C, D Cl. II, Div. 1 and 2, Groups F†, G CI. III NEMA 3, 3R, 7BCD, 9FG, 12 Explosionproof

Dust-Ignitionproof Raintight Wet Locations

Interchangeability of Plugs with Other **Hazardous and Non-hazardous Location Receptacles:**

- Plugs listed for use with EBBR receptacles are standard Arktite APJ/NPJ plugs. Standard APJ/NPJ and also CPH plugs of the same rating, style and number of poles may be used with EBBR receptacles, as well as with DBR, EPC and EPCB receptacles listed in Section 4P of the catalog.
- As a result, portable equipment suitable for the location and equipped with the proper plug can be used with AR/NR series receptacles for non-hazardous locations; EBBR, EPC and EPCB receptacles for Class I and II hazardous locations; and DR and DBR receptacles for Class II hazardous locations.



Complete EBBR receptacle with circuit breaker installed.

Ordering Information:

Receptacle With Spring	Hub Size	Circuit B	reaker	Without Circuit	w/Cutler-Hammer		
Door Housing	(ln.)	Rating	Amps	Breaker Cat. #	Breaker	w/G.E. Breaker	w/Square D Breaker
30 Amp 3-wire 4-pole Style 2	11/2	3-pole 480VAC+ or 250 VDC	20 30 40 50	EBBRA304 EBBRA304 EBBRA304	EBBRA304 WT20 3 EBBRA304 WT30 3 EBBRA304 WT40 3* EBBRA304 WT50 3*	EBBRA304 TT20 3 EBBRA304 TT30 3 EBBRA304 TT40 3* EBBRA304 TT50 3*	EBBRA304 DT20 3 EBBRA304 DT30 3 EBBRA304 DT40 3* EBBRA304 DT50 3*
60 Amp 3-wire 4-pole Style 2	1½	3-pole 480VAC+ or 250 VDC	50 60 70 90 100	EBBRA604 EBBRA604 EBBRB604 EBBRB604	EBBRA604 WT50 3 EBBRA604 WT60 3 EBBRA604 WT70 3* EBBRB604 WT90 3* EBBRB604 WT100 3*	EBBRA604 TT50 3 EBBRA604 TT60 3 EBBRA604 TT70 3* EBBRB604 TT90 3* EBBRB604 TT100 3*	EBBRA604 DT50 3 EBBRA604 DT60 3 EBBRA604 DT70 3* EBBRB604 DT90 3* EBBRB604 DT100 3*
100 Amp 3-wire 4-pole Style 2	1½	3-pole 480VAC+ or 250 VDC	50 60 70 90 100	EBBRA104 EBBRA104 EBBRA104 EBBRB104 EBBRB104	EBBRA104 WT50 3 EBBRA104 WT60 3 EBBRA104 WT70 3 EBBRB104 WT90 3 EBBRB104 WT100 3	EBBRA104 TT50 3 EBBRA104 TT60 3 EBBRA104 TT70 3 EBBRB104 TT90 3 EBBRB104 TT100 3	EBBRA104 DT50 3 EBBRA104 DT60 3 EBBRA104 DT70 3 EBBRB104 DT90 3 EBBRB104 DT100 3
150 Amp‡ 3-wire 4-pole Style 2	11/2	3-pole 480VAC+ or 250 VDC	100 125 150	EBBRB154 EBBRB154 EBBRB154	EBBRB154 WT100 3 EBBRB154 WT125FDB 3 EBBRB154 WT150FDB 3		

⁺Enclosures with 600 Volt circuit breakers are available. Add suffix "FDB" Ex: EBBRA304 – WT20FDB-3.



^{*}Circuit breaker trip rating may exceed receptacle rating for welding equipment applications only, as higher trip rating may not protect wiring. ‡150A also available in A size enclosure for areas with space constraints (ie EBBRA154).

[†]Caution: To reduce the risk of ignition of hazardous atmospheres, do not use plugs or receptacles in Class II, Group F locations that contain electrically conductive dusts.

EBBR Series Interlocked Arktite® Receptacles with Circuit Breakers

30, 60, 100 Amp Interlocked Receptacles

Cl. I, Div. 1 and 2, Groups B, C, D Cl. II, Div. 1 and 2, Groups F†, G Cl. III NEMA 3, 3R, 7BCD, 9FG, 12 Explosionproof Dust-Ignitionproof Raintight Wet Locations

Amps	Cable O.D. Range	Aluminum	Krydon material
00	0.60 to 1.20 0.55 to 0.70	APJ3485	NPJ3483
30	0.33 to 0.70		ND 12404

NPJ10486

NPJ10487

3-wire, 4-pole Cat. #

30 0.55 to 0.70 NPJ3483 NPJ3484

0.70 to 0.85 NPJ3484

0.75 to 1.45 APJ6485

0.75 to 1.07 NPJ6484 NPJ6485

1.00 to 1.70 APJ10487

APJ and NPJ Arktite Plugs





Aluminum APJ series

Krydon® material NPJ series (non-metallic)

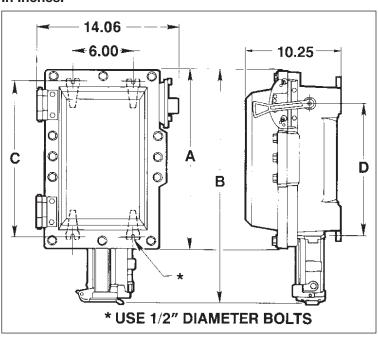
Both APJ and NPJ series plugs may be used with EBBR series interlocked receptacles.

Dimensions In Inches:

0.93 to 1.21

1.21 to 1.50

100



EBBRA					EBBI	RB			
Amps	Α	В	С	D	Α	В	С	D	
30	19.40	22.85	17.25	14.50					
60	19.40	23.95	17.25	14.50	26.90	31.45	24.75	22.00	
100	19.40	24.70	17.25	14.50	26.90	32.20	24.75	22.00	
150	19.40	24.70	17.25	14.50	26.90	32.20	24.75	22.00	

†Caution: To reduce the risk of ignition of hazardous atmospheres, do not use plugs or receptacles in Class II, Group F locations that contain electrically conductive dusts.



BHR Dead Front Interlocked Receptacles with Factory Sealed Switch

NEMA 3, 4, 7BCD, 9FG, 12 Explosionproof

Cl. I, Div. 1 and 2, Groups B, C, D

Cl. II, Div. 1 and 2, Groups F, G

Dust-Ignitionproof Raintight Wet Locations

BHP Plugs

Applications:

BHR dead front interlocked receptacles and switches with BHP plugs are used:

- To supply power to portable electrical equipment such as motor-generator sets, compressors, heating and cooling units, lighting systems, conveyors, and similar equipment
- Primarily in areas which are hazardous due to the presence of hydrogen or gases, or vapors of equivalent hazard such as manufactured gas
- In damp, wet, or corrosive locations
- Indoors or outdoors in hydrogen areas of process industries, missile bases where hydrogen fuel is used, and gas manufacturing plants

Features:

- BHR receptacles feature a built-in rotary switch which is operated automatically when the plug is inserted and withdrawn. The switch, capable of making and breaking the circuit at full rated load, is operated by a helical blade in the center of the plug
- The plug and receptacle contacts cannot be made or broken under load. When the plug is inserted, the plug and receptacle contacts engage before the switch closes. When the plug is withdrawn, the switch opens before the plug and receptacle contacts disengage. This sequence of operation provides maximum safety in a dead front receptacle. Arcing is isolated in a flame and dust-tight chamber
- Operation is simple, safe and positive. To disconnect the portable device, the plug fastening ring is unscrewed and the plug simply pulled straight out. No separate interlock device or operating handle need be actuated
- Positive engagement without mismatching is assured by a distinct physical polarization of the plug and receptacle in every rating
- Plugs are furnished with pressure terminations. Receptacles are furnished with flexible leads for splicing to the supply conductors. A large threaded cover provides access to the wiring compartment
- As shown in the listings, assemblies are available for top, bottom or through feed conduit arrangements in ³/₄" to 2" sizes

Certifications and Compliances:

- Class I, Division 1 and 2, Groups B, C, D
- Class II, Division 1 and 2, Groups F, G
- Class III
- NEMA: 3, 4, 7BCD, 9FG, 12
- ANSI/UL Standard: 1010

Standard Materials:

- Receptacle housings copper-free aluminum
- Seals malleable iron
- Plug exteriors copper-free aluminum
- Insulation high impact glass filled phenolic
- Contacts brass

Standard Finishes:

- Copper-free aluminum natural
- Malleable iron electrogalvanized and aluminum lacquer
- Phenolic natural (black)
- Brass silver plated

Options:

 Special polarity – where two or more receptacles of the same ampere rating and number of poles are to be installed in the same areas for use on different voltages, alternate polarizations can be furnished. Details on request.

Electrical Rating Ranges:

• 30, 60 and 100 amperes, 480VAC

Grounding:

 BHR receptacles and BHP plugs are provided with an extra grounding pole. In plugs, provision is made for attachment of the grounding wire to the grounding pole. In addition, direct connection is provided between the plug and receptacle housings and the grounding pole. In the receptacle, grounding is accomplished through the conduit system

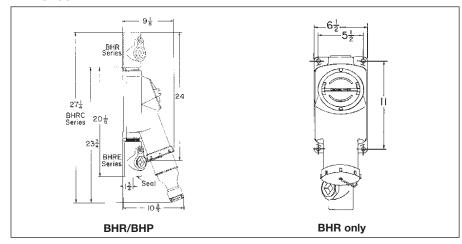
CAUTION: To reduce the risk of ignition of hazardous atmospheres, do not use plugs or receptacles in Class II, Group F locations that contain electrically conductive due to

BHR/BHP in use.



BHR/BHP separated showing helical driver.

Dimensions In Inches:



BHR Dead Front Interlocked Receptacles with Factory Sealed Switch

CI. I, Div. 1 and 2, Groups B, C, D CI. II, Div. 1 and 2, Groups F, G CI. III NEMA 3, 4, 7BCD, 9FG, 12 Explosionproof
Dust-Ignitionproof
Raintight
Wet Locations

BHP Plugs, 480 VAC, 60-400 hertz

Receptacles

Receptacles are supplied ready to install with a threaded cap. Through feed hubs are standard. Sealing fittings, nipples and closure plugs ordered separately depending on application. Receptacles can be configured for Top Feed, Bottom feed or Through feed.

Amps	Config.	Hub Size (In.)	Cat. #
30	2-wire, 3-pole	3/ ₄	BHRC3382N
	2-wire, 3-pole	1	BHRC3383N
	3-wire, 4-pole	3/ ₄	BHRC3482D
	3-wire, 4-pole	1	BHRC3483D
	4-wire, 5-pole	1	BHRC3583 NW
	4-wire, 5-pole	1 ¹ / ₄	BHRC3584 NW
60	2-wire, 3-pole	11/4	BHRC6384N
	2-wire, 3-pole	11/2	BHRC6385N
	3-wire, 4-pole	11/4	BHRC6484D
	3-wire, 4-pole	11/2	BHRC6485D
	4-wire, 5-pole	11/4	BHRC6584 NW
	4-wire, 5-pole	11/2	BHRC6585 NW
100	2-wire, 3-pole	1¼	BHRC10384N
	2-wire, 3-pole	1½	BHRC10385N
	3-wire, 4-pole	1½	BHRC10485D
	3-wire, 4-pole	2	BHRC10486D
	4-wire, 5-pole	1½	BHRC10585 NW
	4-wire, 5-pole	2	BHRC10586 NW



Plugs

Plugs mate to BHR receptacles. Plugs are supplied with threaded locking ring that threads onto receptacle housing for secure connection and environmental seal. Mechanical external cord grip and neoprene bushing provided for secure cord retention and environmental seal.

Amps	Config.	Cable Dia.	Cat. #
30	2-wire, 3-pole	.500875	BHP3383N
	2-wire, 3-pole	.875 - 1.375	BHP3385N
	3-wire, 4-pole	.500875	BHP3483D
	3-wire, 4-pole	.875 - 1.375	BHP3485D
	4-wire, 5-pole	.500875	BHP3583 NW
	4-wire, 5-pole	.875 - 1.375	BHP3585 NW
60	2-wire, 3-pole	.500875	BHP6383N
	2-wire, 3-pole	.875 - 1.375	BHP6385N
	3-wire, 4-pole	.500875	BHP6483D
	3-wire, 4-pole	.875 - 1.375	BHP6485D
	4-wire, 5-pole	.875 - 1.375	BHP6585 NW
	4-wire, 5-pole	1.375 - 1.875	BHP6587 NW
100	2-wire, 3-pole	.875 - 1.375	BHP10385N
	2-wire, 3-pole	1.375 - 1.875	BHP10387N
	3-wire, 4-pole	.875 - 1.375	BHP10485D
	3-wire, 4-pole	1.375 - 1.875	BHP10487D
	4-wire, 5-pole	.875 - 1.375	BHP10585 NW
	4-wire, 5-pole	1.375 - 1.875	BHP10587 NW



SRD Dead Front Interlocked Receptacles with Factory Sealed Switch

SP Plugs, 480 VAC, 60-400 hertz

Cl. I, Div. 1 and 2, Group D Cl. II, Div. 1 and 2, Groups F, G CI. III NEMA 3, 7D, 9FG, 12

Explosionproof

Dust-Ignitionproof Raintight

Wet Locations

Applications:

SRD dead front interlocked receptacles, switches, and SP plugs are used:

- To supply power to portable electrical equipment such as motor-generator sets, compressors, heating and cooling units, lighting systems, conveyors and similar equipment
- In areas which are hazardous due to the presence of flammable vapors or gases and combustible dusts
- In damp, wet or corrosive locations
- Indoors or outdoors at petroleum refineries, chemical and petrochemical plants, as well as facilities for processing and handling grain, flour and starch

Features:

- SRD receptacles feature a built-in rotary switch that operates automatically when the plug is inserted and withdrawn. The switch, capable of making and breaking the circuit at full rated load, is operated by a helical blade in the center of the plug.
- The plug and receptacle contacts cannot be made or broken under load. When the plug is inserted, the plug and receptacle contacts engage before the switch closes. When the plug is withdrawn, the switch opens before the plug and receptacle contacts disengage. This sequence of operation provides the maximum safety of a dead front receptacle. Arcing is isolated in a flame and dust-tight chamber.
- Operation is simple, safe and positive. To disconnect the portable device, the plug is simply pulled straight out. No separate interlock device or operating handle need be actuated.
- · Positive engagement without mismating is assured by a distinct physical polarization of plug and receptacle in every rating.
- Plugs are furnished with pressure terminations. Receptacles are furnished with flexible leads for splicing to the supply conductors. A threaded cover at the top provides access to the wiring compartment.
- Back box is provided with 11/4" vertical through feed hubs.

Certifications and Compliances:

• NEC:

Class I, Division 1 and 2, Group D Class II, Division 1 and 2, Groups F, G Class III

- NEMA 3, 7D, 9FG, 12
- ANSI/UL Standard: 1010

Standard Materials:

- Back box Feralov® iron allov
- Threaded cover copper-free aluminum
- · Receptacle housings and plug exteriors - copper-free aluminum
- Insulation high impact glass filled phenolic
- · Contacts brass

Standard Finishes:

- Feraloy iron alloy electrogalvanized and aluminum acrylic paint
- Copper-free aluminum natural
- Phenolic natural (black)
- Brass silver plated

Options:

· Special polarity - where two or more receptacles of the same ampere rating and number of poles are to be installed in the same area for use on different voltages, alternate polarizations can be furnished. Details on request.

Electrical Rating Ranges:

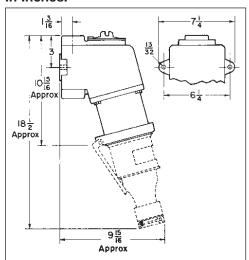
• 30 and 60 amperes, 480VAC

Grounding:

 SRD receptacles and SP plugs are provided with an extra grounding pole. In plugs, provision is made for attachment of a grounding wire to the grounding pole. In addition, direct connection is provided between plug and receptacle housings and the grounding pole. In the receptacle, grounding is accomplished through the conduit system.

CAUTION: To reduce the risk of ignition of hazardous atmospheres, do not use plugs or receptacles in Class II, Group F locations that contain electrically conductive

Dimensions In Inches:







SRD Dead Front Interlocked Receptacles with Factory Sealed Switch

SP Plugs, 480 VAC, 60-400 hertz

Cl. I, Div. 1 and 2, Group D Cl. II, Div. 1 and 2, Groups F, G Cl. III NEMA 3, 7D, 9FG, 12 Explosionproof Dust-Ignitionproof Raintight Wet Locations







SP Plug



SRD Receptacle with threaded cap



SP Plug with fastening ring

Back Box - 11/4" Vertical Through Feed Hubs

		With Spring Door		With Cable Grip and Neoprene Bushing		With Cable Grip and Neoprene Bushing	
Rating	Description	Cat. #	Cable Dia.	Cat. #	Cap Cat. #	Cable Dia.	Cat. #
	2-wire, 3-pole	SRD3324N	.500 to .875 .875 to 1.375	SP3363N SP3365N	SRD3384N	.500 to .875 .875 to 1.375	SP3383N SP3385N
30 amp.	3-wire, 4-pole	SRD3424D	.500 to .875 .875 to 1.375	SP3463D SP3465D	SRD3484D	.500 to .875 .875 to 1.375	SP3483D SP3485D
	4-wire, 5-pole	SRD3524 NW	.500 to .875 .875 to 1.375	SP3563 NW SP3565 NW	SRD3584 NW	.500 to .875 .875 to 1.375	SP3583 NW SP3585 NW
	2-wire, 3-pole	SRD6324N	.500 to .875 .875 to 1.375	SP6363N SP6365N	SRD6384N	.500 to .875 .875 to 1.375	SP6383N SP6385N
60 amp.	3-wire, 4-pole	SRD6424D	.500 to .875 .875 to 1.375	SP6463D SP6465D	SRD6484D	.500 to .875 .875 to 1.375	SP6483D SP6485D
	4-wire, 5-pole	SRD6524 NW	.875 to 1.375 1.375 to 1.875	SP6565 NW SP6567 NW	SRD6584 NW	.875 to 1.375 1.375 to 1.875	SP6585 NW SP6587 NW

EPC Circuit Breakers and Enclosures with Interlocked Arktite® Receptacles

APJ/NPJ† and DP Arktite Plugs

Cl. I, Div. 1 and 2, Groups C, D Cl. II, Div. 1 and 2, Groups F, G Cl. III NEMA/EFC 3, 7CD, 9FG, 12 Explosionproof Dust-Ignitionproof Raintight Wet Locations

Applications:

- The EPC interlock receptacle is designed for use as a service outlet for portable equipment
- It is designed for use in damp, wet and corrosive locations, indoors or outdoors, in areas which are hazardous due to flammable vapors, gases or combustible dust. For example: refineries, chemical plants, and other processing and handling facilities of a hazardous nature

Features:

- Mechanical interlock mechanism for dead front construction
- Receptacles are mechanically interlocked with circuit breakers to provide disconnect means, short circuit protection and thermal time delay overload protection
- A spring door receptacle, located at bottom of 30, 60 and 100 ampere units and at front of 200 ampere units, is mechanically interlocked with the circuit breaker operating mechanism for maximum safety
- Plug and receptacle contacts cannot be made or broken under load. The circuit breaker cannot be closed until the plug is fully inserted and the plug cannot be withdrawn unless the breaker is open
- Operating handles can be padlocked in either "ON" or "OFF" positions. Breakers are trip-free of the handles and will open under short circuit or overload even if the handle is locked in the "ON" position
- Quick installation and leveling is provided by the three-point mounting arrangement which has one keyhole slot at top and two open slots at bottom
- Bodies have four taper-tapped conduit hubs with integral bushings. Two are located at top and two directly below. Sizes are as shown in the listings.

Certifications and Compliances:

- NEC:
 - Class I, Division 1 and 2, Groups C, D Class II, Division 1 and 2, Groups F, G Class III
- NEMA: 3, 7CD, 9FG, 12
- ANSI/UL Standard: 1010
- CEC

Class I, Division 1 and 2, Groups C, D Class II, Division 1 and 2, Group G Class III

Encl. 3, 4

Standard Materials:

- Bodies, covers and receptacle housings
 copper-free aluminum
- Operating handles copper-free aluminum
- Operating shafts stainless steel
- · Interior parts sheet steel
- Insulation (receptacles and plugs) fiberglass-reinforced polyester
- Pressure contacts brass
- Crimp/solder contacts leaded red brass

Standard Finishes:

- Copper-free aluminum natural
- Stainless steel natural
- Sheet steel electrogalvanized with chromate finish
- · Brass natural
- Fiberglass-reinforced polyester natural (red)
- Leaded red brass electro-tin-plate

Electrical Rating Ranges:

- Receptacle ratings: 30, 60, 100 and 200 amperes
- Circuit breakers: 100 and 225 ampere frame sizes

Grounding:

 EPC interlocked receptacles and matching plugs are provided with an extra grounding pole for attaching a grounding wire. In addition, direct connection is provided between plug and receptacle and the grounding pole. If a separate grounding wire is not installed in the enclosure, grounding is accomplished through the conduit system.



30, 60 and 100 ampere size EPC



200 ampere size EPC

Options:

The following special options are available by adding suffix to Cat. #:

Description	Suffix
Special polarity – used where two or more receptacles of the same ampere rating, style and number of poles are to be installed in the same area for use on different voltages. Available on 30, 60 and 100 ampere units as follows:	
Receptacle interior rotated 22½° clockwise when viewed from face of receptacle	
and plug changed to match	S4
100 ampere units only	S366
Back boss drilled and tapped same size as standard hubs, 30, 60 and	0000
100 ampere units only	S367
Breather and drain (Class I, Class II)	S198V
Breather and drain (Class I only)	S454V

CAUTION: To reduce the risk of ignition of hazardous atmospheres, do not use plugs or receptacles in Class II, Group F locations that contain electrically conductive dusts.

†Pressure connectors are standard. Crimp/solder type terminators are optionally available for 2, 3 and 4-pole 30 ampere, 3 and 4-pole 60 and 100 ampere. For details, see page 1233. To specify, add the suffix "T" to the catalog number. For example: APJ3365-T (Plud).



EPC Circuit Breakers and Enclosures with Interlocked Arktite® Receptacles

Cl. I, Div. 1 and 2, Groups C, D Cl. II, Div. 1 and 2, Groups F, G CI. III NEMA/EFC 3, 7CD, 9FG, 12 Explosionproof

Dust-Ignitionproof Raintight Wet Locations

Interchangeability of Plugs with Other **Hazardous and Non-hazardous Location Receptacles:**

- Plugs listed for use with 30, 60 and 100 ampere EPC assemblies are standard Arktite APJ/NPJ plugs. Other standard APJ and CPH plugs of the same rating, style and number of poles may be used with EPC receptacles, as well as with DBR, EBBR and EPCB receptacles listed elsewhere in this section.
- As a result, portable equipment suitable for the location and equipped with the proper plug can be used with AR/NR series receptacles for non-hazardous locations: EBBR, EPC and EPCB receptacles for Class I hazardous locations; DR and DBR receptacles for Class II hazardous locations.

Ordering Information:

100 Ampere Frame Size Thermal-magnetic Circuit Breaker with Non-interchangeable Thermal Trip and Non-adjustable Magnetic Trip

Circuit Breaker			Enclosure					
						With Circuit Breaker		
Receptacle with Spring Door Housing	Rating		Size I	Ckt. Bkr. Amps	Without Circuit Breaker Cat. #	Cutler-Hammer "EHD" Cat. #	General Electric "TED" Cat. #	
30 amp. 2-wire, 3-pole, Style 2	2-pole, 480VAC‡ or 250 VDC	600VAC†	11/4	20 30 40* 50*	EPC43032	EPC43032 WT20 2 EPC43032 WT30 2 EPC43032 WT40 2 EPC43032 WT50 2	EPC43032 TT20 2 EPC43032 TT30 2 EPC43032 TT40 2 EPC43032 TT50 2	
30 amp. 3-wire, 4-pole, Style 2	3-pole, 480VAC‡ or 250 VDC	600VAC†	11/4	20 30 40* 50*	EPC43042	EPC43042 WT20 3 EPC43042 WT30 3 EPC43042 WT40 3 EPC43042 WT50 3	EPC43042 TT20 3 EPC43042 TT30 3 EPC43042 TT40 3 EPC43042 TT50 3	
60 amp. 2-wire, 3 pole, Style 2	2-pole, 480VAC‡ or 250 VDC	600VAC†	1 ¹ / ₄	50 60 70* 90* 100*	EPC46032 EPC66032	EPC46032 WT50 2 EPC66032 WT60 2 EPC66032 WT70 2 EPC66032 WT90 2 EPC66032 WT100 2	EPC46032 TT50 2 EPC66032 TT60 2 EPC66032 TT70 2 EPC66032 TT90 2 EPC66032 TT100 2	
60 amp. 3-wire, 4-pole, Style 2	3-pole, 480VAC‡ or 250 VDC	600VAC†	1½ 2	50 60 70* 90* 100*	EPC46042 EPC66042	EPC46042 WT50 3 EPC66042 WT60 3 EPC66042 WT70 3 EPC66042 WT90 3 EPC66042 WT100 3	EPC46042 TT50 3 EPC66042 TT60 3 EPC66042 TT70 3 EPC66042 TT90 3 EPC66042 TT100 3	
100 amp. 2-wire, 3-pole, Style 2	2-pole, 480VAC‡ or 250 VDC	600VAC†	2	60 70 90 100	EPC61032	EPC61032 WT60 2 EPC61032 WT70 2 EPC61032 WT90 2 EPC61032 WT100 2	EPC61032 TT60 2 EPC61032 TT70 2 EPC61032 TT90 2 EPC61032 TT100 2	
100 amp. 3-wire, 4-pole, Style 2	3-pole, 480VAC‡ or 250VDC	600VAC†	2	60 70 90 100	EPC61042	EPC61042 WT60 3 EPC61042 WT70 3 EPC61042 WT90 3 EPC61042 WT100 3	EPC61042 TT60 3 EPC61042 TT70 3 EPC61042 TT90 3 EPC61042 TT100 3	

225 Ampere Frame Size Circuit Breaker with Interchangeable Thermal Magnetic Trip††

Circuit Breaker		Enclosure						
					With Circuit Breaker			
Receptacle with Spring Door Housing	Rating	Hub Size (In.)	Ckt. Bkr. Amps	Without Circuit Breaker Cat. #	Cutler-Hammer "KB" Cat. #	General Electric "TFK" Cat. #		
200 amp. 3-wire,	3-pole, 600VAC	3	125 150 175	EPC604 2042	EPC604 2042 WT125 3 EPC604 2042 WT150 3 EPC604 2042 WT175 3	EPC605 2042 TT125 3 EPC605 2042 TT150 3 EPC605 2042 TT175 3		
4-pole, Style 2	or 250 VDC	3	200 225*	EPC605 2042	EPC604 2042 WT200 3 EPC604 2042 WT225 3	EPC605 2042 TT200 3 EPC605 2042 TT225 3		

^{*}Circuit breaker trip rating may exceed receptacle rating for welding equipment applications only, as higher trip rating may not protect wiring. ††200 ampere units are suitable for Class I, Group D (NEMA 7D).



[‡]Enclosures with 600 volt circuit breakers from U.S.A. are available. Information on request. †CSA Certified units are supplied with 600VAC FDB frame circuit breakers.

CAUTION: To reduce the risk of ignition of hazardous atmospheres, do not use plugs or receptacles in Class II, Group F locations that contain electrically conductive dusts.

Cl. I, Div. 1 and 2, Groups C, D Cl. II, Div. 1 and 2, Groups F, G Cl. III NEMA/EFC 3, 7CD, 9FG, 12 Explosionproof Dust-Ignitionproof Raintight Wet Locations







APJ Plug

NPJ Plug

Ordering Information - APJ/NPJ and DP Arktite Plugs

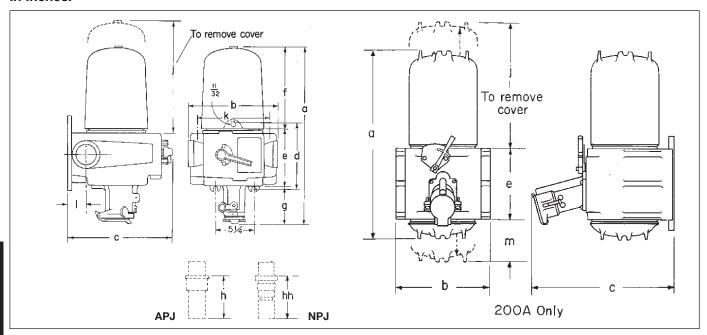
600VAC/250VDC with Cable Grip and Neoprene Bushing - Style 2

Amps	Cable O.D. Range	2-wire, 3-pole Cat. #	3-wire, 4-pole Cat. #
	0.60 to 1.20	APJ3385	APJ3485
30	0.55 to 0.70	NPJ3383	NPJ3483
	0.70 to 0.85	NPJ3384	NPJ3484
	0.75 to 1.45	APJ6385	APJ6485
60	0.75 to 1.07	NPJ6384	NPJ6484
	1.07 to 1.35	NPJ6385	NPJ6485
	1.00 to 1.70	APJ10387	APJ10487
100	0.93 to 1.21	NPJ10386	NPJ10486
	1.21 to 1.50	NPJ10387	NPJ10487
200†	1.875 to 2.50		DP20468

†Pressure connectors are supplied as standard. To specify crimp/solder type terminations add the suffix "T" to the catalog number. For example: APJ3385-T (Plug).

Dimensions

In Inches:



Recept.	Breaker	а	b	С	d	е	f	g	h	hh	j	k	I	m
30 Amp. 60 Amp. 60 Amp. 100 Amp.	20–50 Amp. 50 Amp. 70–100 Amp. 70–100 Amp.	24 24 ¹ / ₂ 24 ¹ / ₂ 25 ¹ / ₄	10 ⁵ / ₈ 10 ⁵ / ₈ 12 ¹³ / ₁₆ 12 ¹³ / ₁₆	14 ³ / ₈ 14 ³ / ₈ 14 ³ / ₈ 14 ³ / ₈	93/8 93/8 93/8 93/8	7 ¹¹ / ₁₆ 7 ¹¹ / ₁₆ 7 ¹¹ / ₁₆ 7 ¹¹ / ₁₆	11 ³ / ₄ 11 ³ / ₄ 11 ³ / ₄ 11 ³ / ₄	4 ⁹ / ₁₆ 5 ¹ / ₁₆ 5 ¹ / ₁₆ 5 ¹³ / ₁₆	4 ¹³ / ₁₆ 5 ¹³ / ₁₆ 5 ¹³ / ₁₆ 6 ⁵ / ₈	7 6 ¹³ / ₁₆ 6 ¹³ / ₁₆ 7 ³ / ₄	20 ³ / ₄ 20 ³ / ₄ 20 ³ / ₄ 20 ³ / ₄	7 ³ / ₈ 7 ³ / ₈ 9 ¹ / ₄ 9 ¹ / ₄	2 ¹ / ₁₆ 2 ¹ / ₁₆ 2 ⁵ / ₈ 2 ⁵ / ₈	
200 Amp.	125–225 Amp.	36	18	27		131/2					341/4			51/2

Dim. "h" and "hh" are exposed portion of plug when engaged with receptacle.



EPCB Circuit Breakers and Enclosures with Interlocked Arktite® Receptacles

APJ/NPJ Arktite Plugs‡

Cl. I, Div. 1 and 2, Groups B, C, D Cl. II, Div. 1 and 2, Groups F, G NEMA/EFC 3, 7BCD, 9FG, 12

Dust-Ignitionproof Raintight Wet Locations

Applications:

- The EPCB interlock receptacle is designed for use as a service outlet for portable equipment. The circuit breaker provides overcurrent and short circuit protection
- · It has a mechanical interlock mechanism for dead front construction and no load make or break feature
- It is designed for use in damp, wet and corrosive locations, indoors or outdoors, in areas which are hazardous due to flammable vapors, gases or combustible dust. For example: refineries, chemical plants, and other processing and handling facilities of a hazardous nature

Features:

- Spring door receptacle located at the bottom is mechanically interlocked with the circuit breaker operating mechanism for maximum safety. Plug and receptacle contacts cannot be made or broken under load. The circuit breaker cannot be closed until the plug is fully inserted and the plug cannot be withdrawn unless the breaker is open
- Operating handles can be padlocked in either "ON" or "OFF" positions. Breakers are trip-free of the handles and will open under short circuit or overload even if the handle is locked in the "ON" position
- · Quick installation and leveling is provided by the three-point mounting arrangement having one keyhole slot at top and two open slots at bottom
- Bodies have four 11/4" taper tapped conduit hubs with integral bushings. Two are located at top and two directly below
- When installing, seals suitable for Class I, Group B hazardous areas must be located within 11/2" of each conduit opening

Certifications and **Compliances:**

• NEC:

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

- NEMA: 3, 7BCD, 9FG, 12
- ANSI/UL Standard: 1010
- CEC:

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

• Encl. 3, 4

Standard Materials:

Explosionproof

- Bodies, covers and receptacle housings - copper-free aluminum
- Operating handles copper-free aluminum
- · Operating shafts stainless steel
- Interior parts sheet steel
- Insulation fiberglass-reinforced polyester
- Pressure contacts brass
- · Crimp/solder contacts leaded red brass

Standard Finishes:

- Copper-free aluminum natural
- Stainless steel natural
- Sheet steel zinc electroplate with chromate finish
- Brass natural
- Fiberglass-reinforced polyester natural (red)
- Leaded red brass electro-tin-plate

Electrical Rating Ranges:

- Receptacle ratings: 30, 60 and 100 amperes
- · Circuit breakers: 100 ampere frame size

Options:

The following special options are available by adding the suffix to the Cat. #: Description

• Special polarity. For use where two or more receptacles of the same ampere rating, style and number of poles are to be installed in the same area for use on different voltages. Receptacle interior rotated 221/2° to right (viewed from face) and plug

Interchangeability of Plugs with Other Hazardous and **Non-hazardous Location Receptacles:**

- Plugs listed for use with EPCB assemblies are standard Arktite APJ/NPJ plugs. Other standard APJ and CPH plugs of the same rating, style and number of poles may be used with EPCB receptacles as well as DBR and EPC receptacles listed elsewhere in this
- As a result, portable equipment suitable for the location and equipped with the proper plug can be used with AR/NR series receptacles for non-hazardous locations; EBBR, EPC and EPCB receptacles for Class I hazardous locations: DR and DBR receptacles for Class II hazardous locations

Grounding:

• EPCB interlocked receptacles and matching plugs are provided with an extra grounding pole for attaching a grounding wire. In addition, direct connection is provided between plug and receptacle and the grounding pole. If a separate grounding wire is not installed in the enclosure, grounding is accomplished through the conduit system

Suffix

EPCB Circuit Breakers and Enclosures with Interlocked Arktite® Receptacles APJ/NPJ Arktite Plugs‡

Cl. I, Div. 1 and 2, Groups B, C, D Cl. II, Div. 1 and 2, Groups F, G NEMA/EFC 3, 7BCD, 9FG, 12 Explosionproof

Dust-Ignitionproof Raintight Wet Locations

Ordering Information:

100 Ampere Frame Size Thermal-magnetic Circuit Breaker with Non-interchangeable Thermal Trip and Non-adjustable Magnetic Trip

Enclosure with Circuit Breaker Circuit Breaker

Receptacle Hub Ckt.

with Spring Door Housing	Rating	Size (In.)	Bkr. Amps	Cutler-Hammer	General Electric
30 amp. 2-wire, 3-pole, Style 2	2-pole, 600VAC or 250 VDC	11/4	20 30 40* 50*	EPCB43632 WT20HFD 2 EPCB43632 WT30HFD 2 EPCB43632 WT40HFD 2 EPCB43632 WT50HFD 2	EPCB43632 TT20TED 2 EPCB43632 TT30TED 2 EPCB43632 TT40TED 2 EPCB43632 TT50TED 2
30 amp. 3-wire, 4-pole, Style 2	3-pole, 600VAC or 250 VDC	11/4	20 30 40* 50*	EPCB43642 WT20HFD 3 EPCB43642 WT30HFD3 EPCB43642 WT40HFD 3 EPCB43642 WT50HFD 3	EPCB43642 TT20TED 3 EPCB43642 TT30TED 3 EPCB43642 TT40TED 3 EPCB43642 TT50TED 3
60 amp. 2-wire, 3-pole, Style 2	2-pole, 600VAC or 250 VDC	11/4	50 60* 70* 90* 100*	EPCB46632 WT50HFD 2 EPCB46632 WT60HFD 2 EPCB46632 WT70HFD 2 EPCB46632 WT90HFD 2 EPCB46632 WT100HFD 2	EPCB46632 TT50TED 2 EPCB46632 TT60TED 2 EPCB46632 TT70TED 2 EPCB46632 TT90TED 2 EPCB46632 TT100TED 2
60 amp. 3-wire, 4-pole, Style 2	3-pole, 600VAC or 250 VDC	11/4	50 60* 70* 90* 100*	EPCB46642 WT50HFD 3 EPCB46642 WT60HFD 3 EPCB46642 WT70HFD 3 EPCB46642 WT90HFD 3 EPCB46642 WT100HFD 3	EPCB46642 TT50TED 3 EPCB46642 TT60TED 3 EPCB46642 TT70TED 3 EPCB46642 TT90TED 3 EPCB46642 TT100TED 3
100 amp. 2-wire, 3-pole, Style 2	2-pole, 600VAC or 250 VDC	11/4	70 90 100	EPCB41632 WT70HFD 2 EPCB41632 WT90HFD 2 EPCB41632 WT100HFD 2	EPCB41632 TT70TED 2 EPCB41632 TT90TED 2 EPCB41632 TT100TED 2
100 amp. 3-wire, 4-pole, Style 2	3-pole, 600VAC or 250 VDC	11/4	70† 90† 100†	EPCB41642 WT70HFD 3 EPCB41642 WT90HFD 3 EPCB41642 WT100HFD 3	EPCB41642 TT70TED 3 EPCB41642 TT90TED 3 EPCB41642 TT100TED 3

‡Pressure connectors are supplied as standard. To specify crimp/solder type terminators add the suffix "T" to the catalog number. For example: APJ3385-T (Plug).

*Circuit breaker trip rating may exceed receptacle rating for welding equipment applications only, as higher trip rating may not protect wiring. †For detailed information on circuit breaker selection see Section 3C.

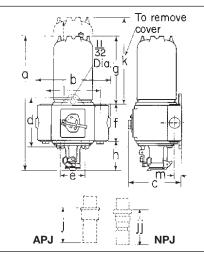








Dimensions In Inches:



APJ/NPJ Arktite Plugs 600VAC/250VDC with Cable Grip and Neoprene Bushing - Style 2

2-wire,

IPJ Plug		Amps	Cable O.D. Range		3-pole Cat. #		4-pole Cat. #	
			0.60 to 1.		APJ3385		APJ3485 NPJ3483 NPJ3484 APJ6485 NPJ6484	
	3	30	0.55 to 0. 0.70 to 0.		NPJ3383 NPJ3384			
	_	60	0.75 to 1. 0.75 to 1.		APJ6385 NPJ6384			
	,	50	1.07 to 1.35		NPJ6385		NPJ6485	
	1	100	1.00 to 1. 0.93 to 1. 1.21 to 1.	21	APJ10387 NPJ10386 NPJ10387	NF.	PJ10487 PJ10486 PJ10487	
Receptacle	а	b	С	d	e	f		
30 Amp.	261/4	115/16	113/4	85/8	5	73/4		
60 Amp.	263/4	115/16	113/4	85/8	5	73/4		
100 Amp.	271/2	115/16	113/4	85/8	5	73/4		
Receptacle	g	h	j	jj	k	1	m	
30 Amp.	139/16	415/16	413/16	7	243/4	83/16	15/8	
60 Amp.	139/16	57/16	513/16	613/16	243/4	83/16	15/8	
100 Amp.	139/16	63/16	65/8	73/4	243/4	83/16	15/8	
Dim "j" and "jj" are	exposed porti	on of plug when	engaged with i	receptacle.				

3-wire,

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DBR Interlocked Arktite® Receptacles With Enclosed Circuit Breakers

APJ/NPJ Arktite Plugs‡

Applications: Standard Finishes:

DBR interlocked *Arktite* receptacles with enclosed circuit breakers and APJ/NPJ *Arktite* plugs are used:

- To supply power to portable electrical equipment such as motor-generator sets, compressors, heating and cooling units, conveyors, and similar equipment
- In locations where hazardous dusts are present, as in grain processing and handling plants, chemical plants and certain food processing industries
- Indoors or outdoors in damp, wet or corrosive locations

Features:

- Receptacles are mechanically interlocked with circuit breakers to provide disconnect means, short circuit protection and thermal time delay overload protection.
- Enclosures are compact and rectangular in shape permitting close spacing.
- For maximum safety, the spring door receptacle at the bottom is mechanically interlocked with the circuit breaker operating mechanism. The circuit breaker cannot be closed until the plug is fully inserted and the plug cannot be withdrawn unless the breaker is open.
- Operating handles can be padlocked in either "ON" or "OFF" positions. Breakers are trip-free of the handles and will open under short circuit or overload even if the handle is locked in the "ON" position.
- Enclosure is provided with a drilled and tapped conduit opening at top center, equipped with a threaded-in bushing. The size furnished is 1½", and removing the bushing permits the use of a 2" conduit.

Certifications and Compliances:

• NEC:

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

• NEMA/EEMAC: 3, 9FG, 12

UL Standard: 698, 1010

• CEC:

Class II, Division 1 and 2, Group G Class III

• Encl. 3, 5

Standard Materials:

- Bodies, covers and operating handles copper-free aluminum
- · Operating shafts stainless steel
- Receptacle housings and plug exteriors copper-free aluminum
- Insulation: plugs and receptacles fiberglass-reinforced polyester
- Pressure contacts brass
- Crimp/solder contacts leaded red brass

 Copper-free aluminum – plug exterior, enclosure and receptacle housing – natural

Cl. II, Div. 1 and 2, Groups F, G

NEMA/EEMAC 3, 9FG, 12

Suffix

Dust-Ignitionproof

Raintight

- Stainless steel natural
- Brass natural
- Fiberglass-reinforced polyester natural (red)
- Leaded red brass electro-tin-plate

Options:

The following special options are available by adding suffix to Cat. #:

Description

 Conduit arrangements other than standard can be supplied. Details on request.

Electrical Rating Ranges:

- Receptacle ratings: 30, 60 and 100 amperes
- Circuit breakers: 100 ampere frame size

Interchangeability of Plugs with Other Hazardous and Non-hazardous Location Receptacles:

- Plugs listed for use with DBR assemblies are standard Arktite APJ/NPJ plugs. Other standard APJ/NPJ and CPH plugs of the same rating, style and number of poles may be used with DBR receptacles, as well as with EBBR, EPC and EPCB receptacles listed in Section 4P.
- As a result, portable equipment suitable for the locations and equipped with the proper plug can be used with AR receptacles for non-hazardous locations, with EBBR, EPC and EPCB receptacles for Class I hazardous locations, and with DR and DBR interlocked receptacles for Class II hazardous locations.

Dimensions:

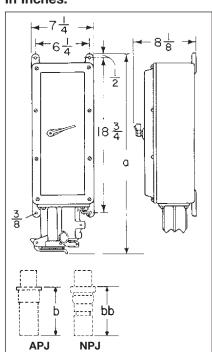
Amps	а	b	bb
30	213/4	61/2	7
60	223/4	81/2	613/16
100	231/2	101/8	73/4

Dim. "b" and "bb" are exposed portion of plug when engaged with receptacle.



CAUTION: To reduce the risk of ignition of hazardous atmospheres, do not use plugs or receptacles in Class II, Group F locations that contain electrically conductive dusts.

Dimensions In Inches:



‡Pressure connectors are standard. Crimp/solder type terminators are optionally available for 3 and 4-pole, 30, 60 and 100 ampere. For details, see page 1233. To specify, add the suffix "T" to the catalog number. For example: AP3375-T (Plug).



DBR Interlocked Arktite® Receptacles With Enclosed Circuit Breakers

Cl. II, Div. 1 and 2, Groups F, G Cl. III NEMA/EEMAC 3, 9FG, 12 Dust-Ignitionproof Raintight

Ordering Information:

100 Ampere Frame Size with Non-interchangeable Thermal Trip and Non-adjustable Magnetic Trip

		Enclosure			
Receptacle With Spring Door Housing†	Circuit Breaker Rating	Hub Size (In.)	Ckt. Bkr. Amps	Without Circuit Breaker Cat. #	With Circuit Breaker Cat. # Cutler-Hammer "FDB"
30 amp., 3-wire, 3-pole, Style 1	3-pole 600VAC	11/2	20 30 40 50	DBR53731	DBR53731 WT20 3 DBR53731 WT30 3 DBR53731 WT40 3* DBR53731 WT50 3*
30 amp., 2-wire, 3-pole, Style 2	2-pole 600VAC or 250 VDC	11/2	20 30 40 50	DBR53732	DBR53732 WT20 2 DBR53732 WT30 2 DBR53732 WT40 2* DBR53732 WT50 2*
30 amp., 3-wire, 4-pole, Style 2	3-pole 600VAC	11/2	20 30 40 50	DBR53742	DBR53742 WT20 3 DBR53742 WT30 3 DBR53742 WT40 3* DBR53742 WT50 3*
60 amp., 3-wire, 3-pole, Style 1	3-pole 600VAC	11/2	50 60 70 90 100	DBR56731	DBR56731 WT50 3 DBR56731 WT60 3 DBR56731 WT70 3* DBR56731 WT90 3* DBR56731 WT100 3*
60 amp., 2-wire, 3-pole, Style 2	2-pole 600VAC or 250 VDC	11/2	50 60 70 90 100	DBR56732	DBR56732 WT50 2 DBR56732 WT60 2 DBR56732 WT70 2* DBR56732 WT90 2* DBR56732 WT100 2*
60 amp., 3-wire, 4-pole, Style 2	3-pole 600VAC	11/2	50 60 70 90 100	DBR56742	DBR56742 WT50 3 DBR56742 WT60 3 DBR56742 WT70 3* DBR56742 WT90 3* DBR56742 WT100 3*
100 amp., 3-wire, 3-pole, Style 1	3-pole 600VAC	11/2	60 70 90 100	DBR51731	DBR51731 WT60 3 DBR51731 WT70 3 DBR51731 WT90 3 DBR51731 WT100 3
100 amp., 2-wire, 3-pole, Style 2	2-pole 600VAC or 250 VDC	11/2	60 70 90 100	DBR51732	DBR51732 WT60 2 DBR51732 WT70 2 DBR51732 WT90 2 DBR51732 WT100 2
100 amp., 3-wire, 4-pole, Style 2	3-pole 600VAC	11/2	60 70 90 100	DBR51742	DBR51742 WT60 3 DBR51742 WT70 3 DBR51742 WT90 3 DBR51742 WT100 3

^{*}Circuit breaker trip rating may exceed receptacled rating for welding equipment applications only, as higher trip rating may not protect wiring.

‡ For detailed information on circuit breaker selection,

Style 2†

2-wire,

APJ/NPJ Arktite Plugs





Amps	Cable O.D. Range	3-pole Cat. #	3-pole Cat. #	4-pole Cat. #
30	0.60 to 1.20 0.55 to 0.70 0.70 to 0.85	APJ3375	APJ3385 NPJ3383 NPJ3384	APJ3485 NPJ3483 NPJ3484
60	0.75 to 1.45 0.75 to 1.07 1.07 to 1.35	APJ6375	APJ6385 NPJ6384 NPJ6385	APJ6485 NPJ6484 NPJ6485
100	1.00 to 1.70 0.93 to 1.21 1.21 to 1.50	APJ10377	APJ10387 NPJ10386 NPJ10387	APJ10487 NPJ10486 NPJ10487

Style 1†

3-wire,

APJ Plug

NPJ Plug

3-wire,

[‡] For detailed information on circuit breaker selection, see Section 3C.

±Style 1 – Grounded through shell. Style 2 – Grounder

See Section 30.

† Style 1 – Grounded through shell. Style 2 – Grounded through extra pole and shell. For a detailed description of these grounding methods, see page 1231.