

Plugs and Receptacles Industrial Heavy Duty Interlocked Hazardous

4P

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Industrial Heavy Duty Interlocked Application and Selection Hazardous

Application

- 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	1049 1050	BHP	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	1061 1062	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
DSR	Class II, Division 1 and 2, Group G Class III, Encl. 3,5 NEMA: 3,9G,12	Switch	1047	APJ/NPJ	Switch: 60 and 100 amp. 600VAC/250VDC Fusible or non-fusible Receptacle: 60 and 100 amp. 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	1053 1054 1055	APJ/NPJ	Receptacle: 30, 60, 100 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	1056 1057 1058	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	1057 1058	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	1059 1060	APJ/NPJ	Circuit breaker: 100 amp. frame size 600VAC/250VDC Receptacle: 30, 60, 100 amp. 2-wire, 3-pole 3-wire, 4-pole

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	Switch	1043	APJ/NPJ	30A 250V/20A 600VAC 2-wire, 3-pole 3-wire, 4-pole 60A & 100A 2-wire, 3-pole 2-wire, 3-pole 3-wire, 4-pole
	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				
W2SR	CEC: Class II, Division 1 and 2, Group G	Rotary Switch	1044 1045 1046	BP FP	30A,60A,100A 3-wire, 3-pole 3-wire, 4-pole
	CEC: Class III				
	Encl. 3,5				
SRD	NEC/CEC: Class I, Division 2, Groups B,C,&D	Factory Sealed Switch	1048	APJ/NPJ	30 & 60 amp. 480VAC 2-wire, 3-pole 3-wire, 4-pole 4-wire, 5-pole
	NEC: Class I, Zone 2, Group IIB + Hydrogen				
	NEMA 3R				
SRD	Class I, Division 1 and 2, Group D	Factory Sealed Switch	1051 1052	5P	30 & 60 amp. 480VAC 2-wire, 3-pole 3-wire, 4-pole 4-wire, 5-pole
	Class II, Division 1 and 2, Groups F,G				
	Class III				
SRD	NEMA: 3,7D,9FG,12				

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
APJ/NPJ	AR, NR	1P	30, 60, 100 amp.
	DR	2P	2-wire, 3-pole
	FSQ, EPC, EPCB, DBR, EBBR, C2SR, FSQC, C2SR, DSR, DBR, NBR, NSR, W2SR, WSR, CSR, WSRD, WSRDW, WSQC, DSR, WSRDCHS901	4P	3-wire, 4-pole
BHP	SRG	3P	30, 60, 100 amp.
	SRD	4P	2-wire, 3-pole
	BHR	4P	3-wire, 4-pole 4-wire, 5-pole
SP	SRG	3P	30, 60 amp.
	BHR	4P	2-wire, 3-pole
	SRD	4P	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.

Application:

FSQ dead front interlocked receptacles and switches with APJ/NPJ, BP and FP plugs are used:

- to supply power to portable electrical equipment such as hand lamps, lighting systems, power tools, 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 and facilities for processing and handling grain, flour and starch.

Features:

- FSQ dead front interlocked receptacles and switches, as shown in the listings, are available with four different types of receptacles, each of which is positively polarized to prevent mismating. With this choice of receptacle types, power outlets for several different voltages can be installed in the same area with assurance that portable equipment cannot be connected to a receptacle of improper voltage.
- All FSQ assemblies have the same outstanding safety features. The plug must be fully inserted in the receptacle and rotated clockwise to operate the enclosed switch, closing the circuit to the receptacle. The plug cannot be withdrawn until it is rotated counter-clockwise and the switch opened. Plug and receptacle contacts cannot be made or broken under load and when plug and receptacle are not engaged, receptacle is dead front.
- An added safety feature is provided by the cover screw. The cover cannot be removed when the switch is closed and with the cover removed and cover screw in place, the switch cannot be operated by the plug.

Grounding:

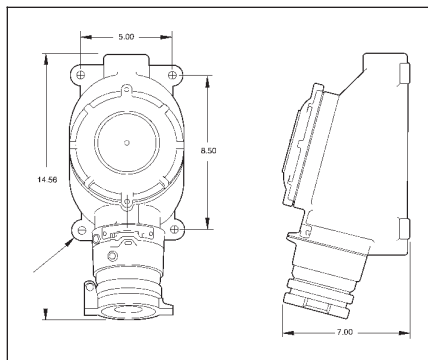
- NEC Article 501 and CEC Part 1 Section 18 requires that metal frames or exposed non-current-carrying metal parts of portable devices used in hazardous areas be grounded through an extra conductor in the portable cord.
- All FSQ receptacles and matching plugs are provided with an extra grounding pole. In the plugs, provision is made for attachment of the grounding wire. In addition, direct connection is provided between plug and receptacle housings and the grounding pole. If a separate grounding wire is not installed in the receptacle, grounding is accomplished through the conduit system.

Certifications and Compliances:

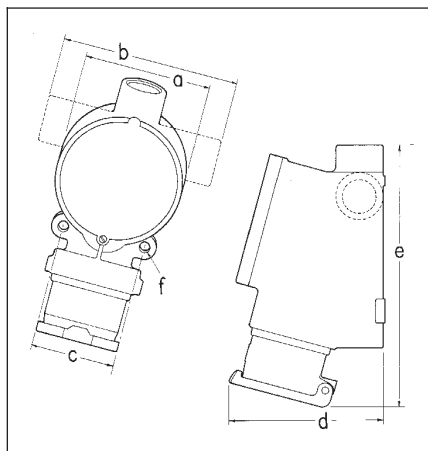
- NEC: Class I, Division 1 and 2, Groups B*,C,D
Class II, Division 1 and 2, Groups F,G
Class III
- NEMA: 3,7B*CD,9FG,12
- ANSI/UL Standard: 1010
- CEC: Class I, Division 1 and 2, Groups B,C,D
Class II, Division 1 and 2, Group G
Class III
- Encl. 3,5
- CSA Standard: C22.2 No. 30

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:



FSQC5630, 5640



Cat. #	Page	Maximum Dimensions					
		a	b	c	d	e	f
FSQC2320, 3320 FSQC2430, 3430 FSQC2390, 3390	4P-3	4¾		3⅞	5¾	9¾	¾
FSQ230, 330 Series	4P-4	4¾	6⅝	3⅞	5¾	10¼	¾
FSQ232, 332 Series FSQ233, 333 Series	4P-5	4¾	6⅝	3⅞	5½	9½	¾



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 and CPH plugs of the same rating, style and number of poles may be used with FSQC receptacles as well as with DR, 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; DR and DBR receptacles for Class II hazardous locations.

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

4P

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.

Product 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

Materials:

- Enclosure – Feraloy® iron alloy or copper-free aluminum
- Cover and spring door – copper-free aluminum
- Insulator – Krydon®
- Contacts – brass

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 Standard C22.2 No. 30 cUL Listed & C22.2 No. 159

Options:

Description	Suffix
Special polarity, receptacle interior rotated 22½°	S4
Copper-free aluminum enclosure – 60A only	SA



FSQC Receptacles With Spring Door (Through Feed Hubs)

Horsepower Rating:

Amps	Single Phase			
	120V	240V	480V	600V
30A	2	5	7½	7½
60A	—	10	25	30

Amps	120V	Three Phase		600V
		240V	480V	
30A	3	7½	15	15
60A	—	10	25	30

Ordering Information:

Amps	Hub	Config.	Description	Catalog Number	Matching Plug
30A	¾"	2W3P	2 Pole Switch	FSQC2320	APJ3385
		3W4P	3 Pole Switch	FSQC2430	APJ3485
	1"	2W3P	2 Pole Switch	FSQC3320	APJ3385
		3W4P	3 Pole Switch	FSQC3430	APJ3485
60A	1½"	2W3P	2 Pole Switch	FSQC5630	APJ6385
		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*. (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.

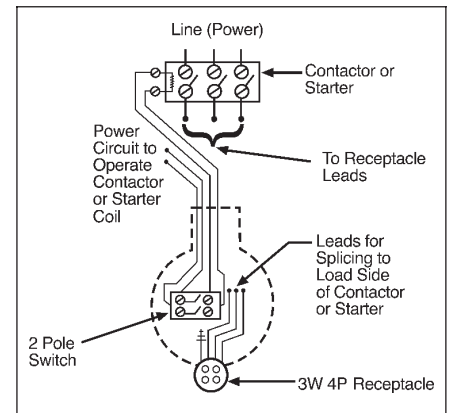
Plugs used are standard APJ units and special polarity units listed are recommended where interchange with devices for other wiring systems is possible.

FSQC Receptacles With Spring Door (Through Feed Hubs)

30 Amperes, 250 VAC or VDC; 20 Amperes, 600 VAC

No. of Poles	Hub Size	Receptacle Cat. #	Cable Dia.	Plug Cat. #
3-wire 4-pole	¾"	FSQC2390	0.60 to 1.20	APJ3485
	¾"	FSQC2390-S4		APJ3485-S4
	1"	FSQC3390	0.55 to 0.70	NPJ3483
	1"	FSQC3390-S4	0.70 to 0.85	NPJ3483-S4
				NPJ3484
				NPJ3484-S4

APJ/NPJ Plugs



Wiring Diagram 1
(FSQC2390 and 3390 only)

4P
Interlocked
Plugs and
Receptacles

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

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

Materials:

- body—copper-free aluminum
- cover—copper-free aluminum
- locking collar—Feraloy® iron alloy
- insulator—Krydon® material
- contacts—brass

Certifications and Compliances:

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

* NEMA 4X when ordered with suffix S752

Electrical Rating:

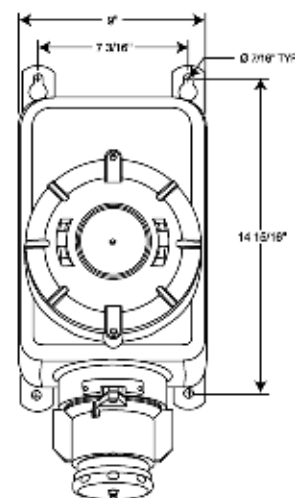
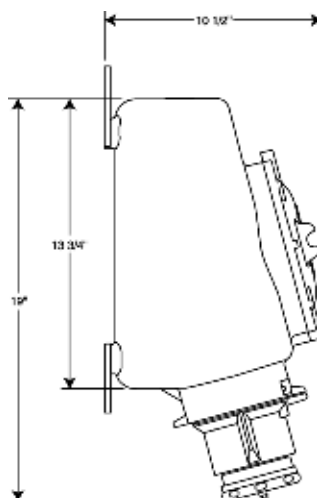
100A, 600VAC

Ordering Information:

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

Options:

Special polarity—receptacle interior rotated 22½° to right. Add suffix S4
 (example: FSQC61040 S4)
 NEMA 4X—epoxy powder coated.
 Add suffix S752
 (example: FSQC61040 S752)
 Auxiliary contact. Add suffix S483
 Breather/Drain S756V



FSQ Dead Front Interlocked Receptacles and Switches

BP 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

4P

Note:

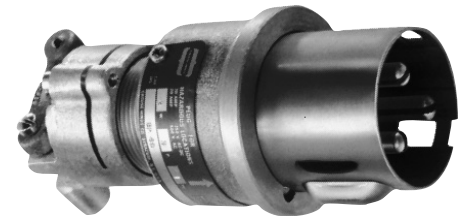
- For information on application, features, groundings and compliances, see page 1042.
- Available with 3/4" and 1" hubs in various arrangements, as shown in the listings.

Standard Materials:

- Switch enclosure and receptacle housing – *Feraloy*® iron alloy
- Threaded cover and spring door – copper-free aluminum
- Plug exteriors; handle body – copper-free aluminum
- Protective sleeve – steel
- Insulation (plug and receptacle) – Krydon® fiberglass reinforced polyester
- Contacts – brass





Standard Finishes:

- *Feraloy* iron alloy – electrogalvanized and aluminum acrylic paint
- Copper-free aluminum – natural
- Steel – zinc electroplate with chromate finish
- Brass – natural
- Krydon, fiberglass reinforced polyester – natural (red)



FSQ Receptacles With Spring Door

30 Amperes, 250 VAC or VDC; 20 Amperes, 600 VAC; 2 HP, 120-600 VAC

No. of Poles	Hub Size	Hub Arrangement	Cat. #	Hub Arrangement	Cat. #
2-wire, 3 pole (2-pole switch)	3/4		FSQC230		FSQD230
	1		FSQC330		FSQD330
	3/4		FSQA230		FSQX230
	1		FSQA330		FSQX330

BP Plugs With Cable Grip and Neoprene Bushing

Cable Dia.	Cat. #
.375 to .500	BP49
.500 to .625	BP59
.625 to .750	BP69
.750 to .875	BP79

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.

FSQ Dead Front Interlocked Receptacles and Switches

FP Plugs

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

Dust-Ignitionproof
 Raintight
 Wet Locations

Note:

- For information on application, features, groundings and compliances, see page 1042.
- Available with 3/4" and 1" hubs in various arrangements, as shown in the listings.

Standard Materials:

- Switch enclosures and receptacle housings – *Feraloy*® iron alloy
- Threaded covers – copper-free aluminum
- Plug exteriors – FP323 and FP334 – copper-free aluminum
- Insulation: receptacles – Krydon® fiberglass reinforced polyester; FP323 and FP334 plugs – Krydon® fiberglass reinforced polyester
- Contacts – brass

Standard Finishes:

- *Feraloy* iron alloy – electrogalvanized and aluminum acrylic paint
- Copper-free aluminum – natural
- Krydon-fiberglass reinforced polyester – natural (red)
- Brass – natural

Options:

- Addition of cap and chain (copper-free aluminum, natural finish) to FSQ assemblies with threaded housing protects interior when plug is not in use. Add suffix S1 to Cat. No.

* Class I, Group B:

FSQ units listed below are also available modified for Class I, Group B (NEMA 7B) usage. Add suffix GB to the Cat. No. Example: FSQC232-GB. Seals must be installed within 1 1/2" of each conduit opening.



FSQ Receptacles With Threaded Housing

30 Amperes, 250 VAC or VDC; 20 Amperes, 600 VAC; 2 HP, 120-600 VAC

No. of Poles	Hub Size	Switch	Hub Arrangement	Cat. #	Hub Arrangement	Cat. #
2-wire	3/4"	2-pole		FSQC232		FSQD232
3-pole	1"			FSQC332		FSQD332
2-wire	3/4"	2-pole		FSQA232		FSQX232
3-pole	1"			FSQA332		FSQX332

30 Amperes, 240 VAC; 20 Amperes, 600 VAC; 2 HP, 120-600 VAC

3-wire	3/4"	3-pole		FSQC233		FSQD233
4-pole	1"			FSQC333		FSQD333
3-wire	3/4"	3-pole		FSQA233		FSQX233
4-pole	1"			FSQA333		FSQX333

FP Plugs With Cable Grip and Neoprene Bushing

No. of Poles	Cable Dia.	Cat. #
2-wire,	.500 to .875	FP323
3-pole,		
3-wire,	.500 to .875	FP334
4-pole		

DSR Interlocked Arktite® Receptacle with Enclosed Disconnect Switches

Cl. II, Div. 1 and 2, Group G
Cl. III
NEMA: 3,9G,12
Encl. 3,5
Dust-Ignitionproof

Raintight

4P

Application:

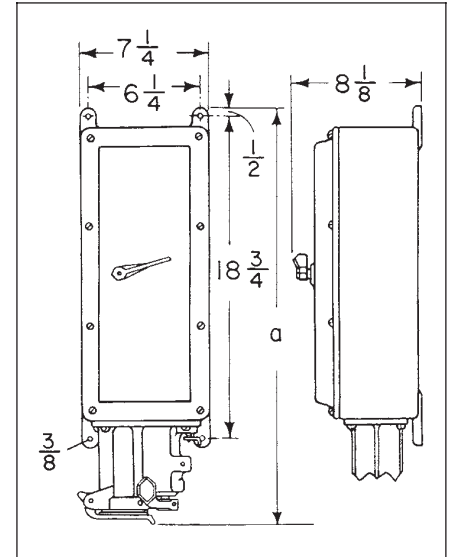
- The DSR disconnect switches are used as a service outlet for portable or fixed electrical equipment – generators, compressors, welders, etc.
- They are designed for use in hazardous and non-hazardous areas where dust, moisture and corrosion may be a problem.
- Designed for surface mounting.
- A fusible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

Features:

- Switches
- Type DS disconnect is a compact load break switch using the De-ion arc quenching principle and quick make-break over center toggle mechanism. It has visible contacts, is CSA listed up to 30 hp., and is available either as a fusible or non-fusible switch.
- Enclosures are compact and rectangular in shape permitting close spacing with a gasketing cover.
- 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.
- Operating handles can be padlocked in either "ON" or "OFF" positions.
- Enclosure is provided with a drilled and tapped conduit opening at top center, equipped with a thread-in bushing. The size furnished is 1½", and removing the bushing permits the use of a 2" conduit.



Dimensions:



Options:

The following special options are available by adding suffix to Cat. No.

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. Available as follows:

- Receptacle interior rotated 22½ degrees to right (viewed from face) and plug changed to match **S4**
- Breather (drain furnished as standard) **S219**
- Conduit arrangements other than standard can be supplied **Details on request.**

Certifications and Compliances:

- NEC/CEC: Class II, Division 1 and 2, Group G Class III
- Encl. 3,5
- NEMA 3,9G,12

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.
- Contacts – brass.

Standard Finishes:

- Copper-free aluminum – natural.
- Stainless steel – natural.
- Brass – Bright Dip.
- Fiberglass-reinforced polyester – natural (red).

Electrical Rating Ranges:

- 3-Wire, 4-Pole:
Fusible or non-fusible:
240VAC 250vdc: 600 vac
60, 100 amperes
- 15 to 75 hp

Ordering Information:

System	Amps	Conduit Opening Sizes	Max. HP Rating 240VAC	Max. HP Rating 600VAC	DSR 240VAC 250VDC Cat. #	600VAC 250VDC Cat. #
3-Wire, 4-Pole	60	1½	15	50	DSR632**	DSR6352*
Style 2, Fusible	100	1½	30	75		DSR10352*
3-Wire, 4-Pole	60	1½	15	50	DSR6342	DSR63542
Style 2, Non-Fusible	100	1½	30	75	DSR10342	DSR103542

* Arranged for Class J fuses.

** Arranged for Class H fuses.

W2SR Interlocked Arktime® Receptacles

Product Features:

- NEMA 3R
- Rainproof locations
- Available in 30, 60 & 100 amps
- RSWP factory-sealed explosionproof switch
- No external seals required
- Hinged door mechanically interlocked with operating handle
- Operating handle meets OSHA lockout/tagout requirements
- Compatible with Arktime® APJ aluminum and NPJ Krydon® material non-metallic plugs

Materials:

- Enclosure – copper-free aluminum
- Operating handle – copper-free aluminum
- Other exterior parts – stainless steel
- Receptacle housings – copper-free aluminum
- Insulator — Krydon® material
- Crimp/solder contacts – leaded red brass
- Pressure contacts – brass

Certifications and Compliances:

- NEMA 3R
- NEC/CEC: Class I, Division 2, Groups B, C & D
- NEC: Class I, Zone 2, Group IIB+Hydrogen
- UL Standards 508, 1604, 1682 UL Listed
- CSA Standard C22.2 No. 182.1 & No. 213 cUL Listed



Horsepower Ratings:

Amps	Single Phase		120V	Three Phase		
	120V	240V		240V	480V	600V
30A	2	3	3	7½	15	20
60A	3	7½	7½	15	30	40
100A	5	10	10	20	40	60

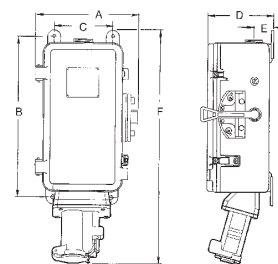
Ordering Information:

Amps	Hub	Config.	Catalog No.
30A	1"	3W3P	W2SR33541
		3W4P	W2SR33542
60A	1¼"	3W3P	W2SR63541
		3W4P	W2SR63542
100A	1½"	3W3P	W2SR103541
		3W4P	W2SR103542

OPTIONS – The following options are available from the factory by adding suffix to the catalog number:

1) Receptacle interior rotated 22½° S4

Dimensions: (In Inches)



	30 Amps	60 Amps	100 Amps
A	11¼	11¼	14⅞
B	20⅞	20⅞	26⅞
C	6⅞	6⅞	9⅞
D	7¼	7¼	8¼
E	2⅞	2⅞	2⅞
F	27⅞	28⅞	35⅞
Mtg. Holes	⅜	⅜	⅞

BHR Dead Front Interlocked Receptacles with Factory Sealed Switch

BHP Plugs

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

4P

Application:

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

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

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:

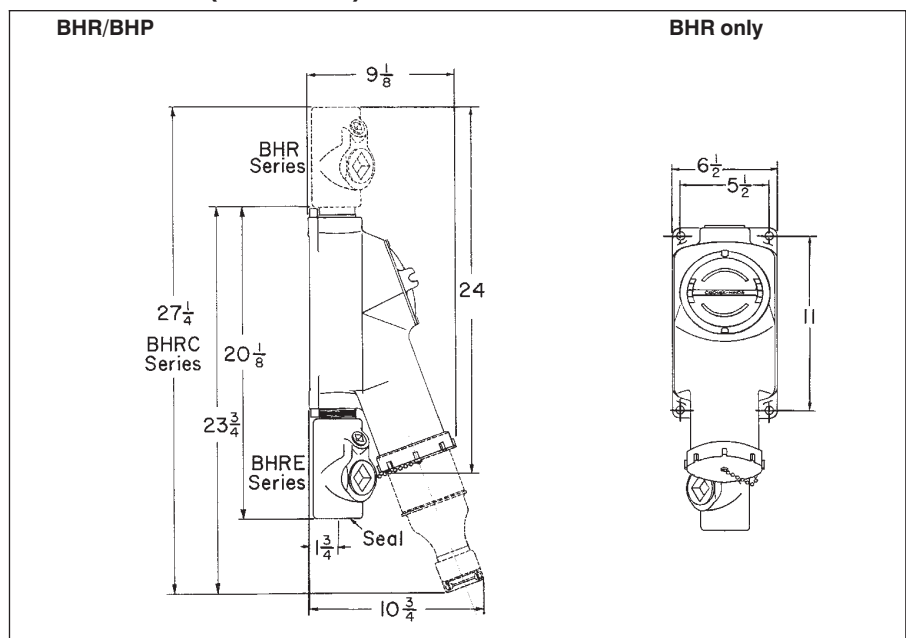
- 30, 60 and 100 amperes, 480vac

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

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)



BHR/BHP in use



BHR/BHP Separated showing helical driver

BHR Dead Front Interlocked Receptacles with Factory Sealed Switch

BHP Plugs

480 VAC, 60-400 hertz

Cl. I, Div. 1 and 2, Groups B,C,D
Cl. II, Div. 1 and 2, Groups F,G
Cl. III
NEMA 3,4,7BCD,9FG,12

Explosionproof
Dust-Ignitionproof
Raintight
Wet Locations

RECEPTACLE

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. Order required parts in catalog section 6C.

AMPS	CONFIG.	HUB SIZE	CATALOG #
30	2 wire 3 pole	¾	BHRC3382N
	2 wire 3 pole	1	BHRC3383N
	3 wire 4 pole	¾	BHRC3482D
	3 wire 4 pole	1	BHRC3483D
	4 wire 5 pole	1	BHRC3583NW
	4 wire 5 pole	1 ¼	BHRC3584NW
60	2 wire 3 pole	1 ¼	BHRC6384N
	2 wire 3 pole	1 ½	BHRC6385N
	3 wire 4 pole	1 ¼	BHRC6484D
	3 wire 4 pole	1 ½	BHRC6485D
	4 wire 5 pole	1 ¼	BHRC6584NW
	4 wire 5 pole	1 ½	BHRC6585NW
100	2 wire 3 pole	1 ¼	BHRC10384N
	2 wire 3 pole	1 ½	BHRC10385N
	3 wire 4 pole	1 ½	BHRC10485D
	3 wire 4 pole	2	BHRC10486D
	4 wire 5 pole	1 ½	BHRC10585NW
	4 wire 5 pole	2	BHRC10586NW



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.	CATALOG #
30	2 wire 3 pole	.500 - .875	BHP3383N
	2 wire 3 pole	.875 - 1.375	BHP3385N
	3 wire 4 pole	.500 - .875	BHP3483D
	3 wire 4 pole	.875 - 1.375	BHP3485D
	4 wire 5 pole	.500 - .875	BHP3583NW
	4 wire 5 pole	.875 - 1.375	BHP3585NW
60	2 wire 3 pole	.500 - .875	BHP6383N
	2 wire 3 pole	.875 - 1.375	BHP6385N
	3 wire 4 pole	.500 - .875	BHP6483D
	3 wire 4 pole	.875 - 1.375	BHP6485D
	4 wire 5 pole	.875 - 1.375	BHP6585NW
	4 wire 5 pole	1.375 - 1.875	BHP6587NW
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	BHP10585NW
	4 wire 5 pole	1.375 - 1.875	BHP10587NW



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

4P

Application:

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 1¼" vertical through feed hubs.

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.

Standard Materials:

- Back box – *Feraloy*® iron alloy
- 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:

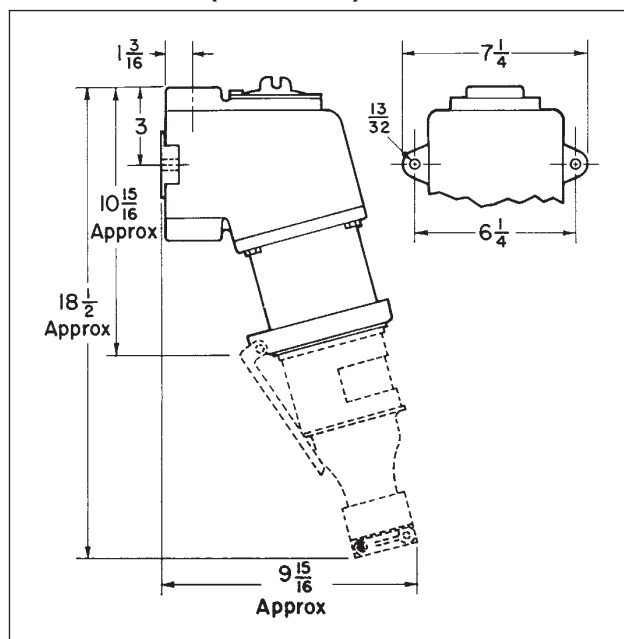
- 30 and 60 amperes, 480vac

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

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)



4P
Interlocked
Plugs and
Receptacles

4P

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



SRD Receptacle with spring door



SP Plug



SRD Receptacle with threaded cap



SP Plug with fastening ring

Back Box – 1¼" Vertical Through Feed Hubs

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

EBBR Series Interlocked Arktite® Receptacles with Circuit Breakers

30, 60, 100 Amp Interlocked Receptacles

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

4P

Application:

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.



- 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

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.

Standard Materials:

- Body, cover, and receptacle – copper-free 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 – 20-100 amps
- Receptacles – 30, 60, 100 amp
- 3 wire, 4 pole configuration

Options:

The following options are available from the factory by adding suffix to the catalog number.
Receptacle interior rotated 22½° to right (viewed from face) and plug changed to match. . S4
Breather (ECD13) at top,
Drain (ECD11) at bottom S198V
Group B Breather and Drain . . . S756V
External Powder Epoxy Finish . . S752

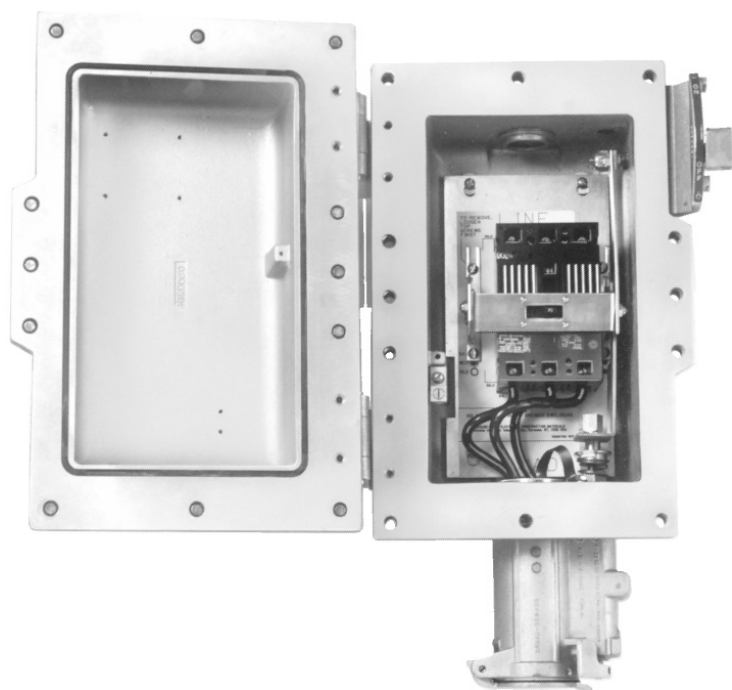
* Caution: To reduce the risk of ignition of hazardous atmospheres, do not use plugs or receptacles in Class II, Group F locations that contain electrically conductive dusts.

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



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 DR receptacles listed in Section 2P and 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 Door Housing	Hub Size	Circuit Breaker		Without Circuit Breaker Cat. #	w/Cutler-Hammer Breaker	w/G.E. Breaker	w/Square D Breaker
		Rating	Amps				
30 Amp	1½	3-pole	20	EBBRA304	EBBRA304-WT20-3	EBBRA304-TT20-3	EBBRA304-DT20-3
3-wire		480VAC+	30	EBBRA304	EBBRA304-WT30-3	EBBRA304-TT30-3	EBBRA304-DT30-3
4-pole		or	40	EBBRA304	EBBRA304-WT40-3*	EBBRA304-TT40-3*	EBBRA304-DT40-3*
Style 2		250VDC	50	EBBRA304	EBBRA304-WT50-3*	EBBRA304-TT50-3*	EBBRA304-DT50-3*
60 Amp	1½	3-pole	50	EBBRA604	EBBRA604-WT50-3	EBBRA604-TT50-3	EBBRA604-DT50-3
3-wire		480VAC+	60	EBBRA604	EBBRA604-WT60-3	EBBRA604-TT60-3	EBBRA604-DT60-3
4-pole		or	70	EBBRA604	EBBRA604-WT70-3*	EBBRA604-TT70-3*	EBBRA604-DT70-3*
Style 2		250VDC	90	EBBRB604	EBBRB604-WT90-3*	EBBRB604-TT90-3*	EBBRB604-DT90-3*
			100	EBBRB604	EBBRB604-WT100-3*	EBBRB604-TT100-3*	EBBRB604-DT100-3*
100 Amp	1½	3-pole	50	EBBRA104	EBBRA104-WT50-3	EBBRA104-TT50-3	EBBRA104-DT50-3
3-wire		480VAC+	60	EBBRA104	EBBRA104-WT60-3	EBBRA104-TT60-3	EBBRA104-DT60-3
4-pole		or	70	EBBRA104	EBBRA104-WT70-3	EBBRA104-TT70-3	EBBRA104-DT70-3
Style 2		250VDC	90	EBBRB104	EBBRB104-WT90-3	EBBRB104-TT90-3	EBBRB104-DT90-3
			100	EBBRB104	EBBRB104-WT100-3	EBBRB104-TT100-3	EBBRB104-DT100-3

+ 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.

† 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 Arktime® Receptacles with Circuit Breakers

30, 60, 100 Amp Interlocked Receptacles

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

4P

APJ and NPJ Arktime Plugs



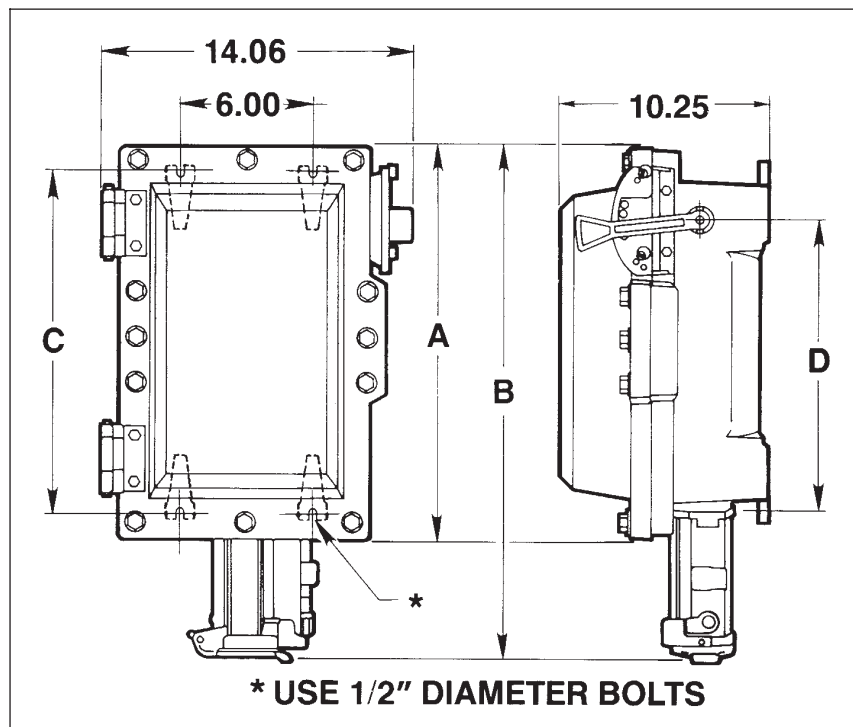
Aluminum APJ series



Krydon® material NPJ series
(non-metallic)

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

Dimensions



3-wire, 4-pole Cat. No.

Amps	Cable O.D. Range	Aluminum	Krydon material
30	0.60 to 1.20	APJ3485	
	0.55 to 0.70		NPJ3483
	0.70 to 0.85		NPJ3484
60	0.75 to 1.45	APJ6485	
	0.75 to 1.07		NPJ6484
	1.07 to 1.35		NPJ6485
100	1.00 to 1.70	APJ10487	
	0.93 to 1.21		NPJ10486
	1.21 to 1.50		NPJ10487

Amps	EBBRA				EBBRB			
	A	B	C	D	A	B	C	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

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

Application:

- 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.

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.

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

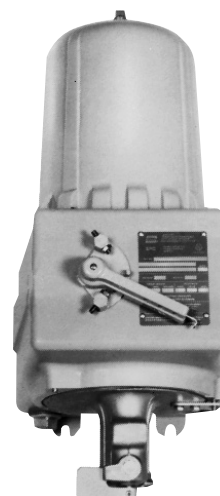
Electrical Rating Ranges:

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

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

30, 60 and
100-ampere
size EPC



200-ampere
size EPC

Options:

The following special options are available by adding suffix to Cat. No.

Description

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 degrees clockwise when viewed from face of receptacle and plug changed to match	S4
Side bosses drilled and tapped same size as standard hubs, 30, 60 and 100 ampere units only.	S366
Back boss drilled and tapped same size as standard hubs, 30, 60 and 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 table on page 969. To specify, add the suffix "T" to the catalog number. For example: APJ3365-T (Plug)

Suffix to be
Added to Encl.
Cat. #

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
Cl. III
NEMA/IEC 3,7CD,9FG,12
Explosionproof

Dust-Ignitionproof
Raintight
Wet Locations

4P

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 DR receptacles listed in Section 2P and 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.

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.

100 Ampere Frame Size Thermal-Magnetic Circuit Breaker with Non-Interchangeable Thermal Trip and Non-Adjustable Magnetic Trip

Circuit Breaker			Enclosure					
Receptacle with Spring Door Housing	Rating		Section 6C	Hub Size	Ckt. Bkr. Amps	Without Circuit Breaker Cat. #	With Circuit Breaker	
			Table				Cutler-Hammer “EHD” Cat. #	General Electric “TED” Cat. #
30 amp. 2-wire, 3-pole, Style 2	2-pole, 480VAC‡ or 250VDC	600VAC	8	1¼	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 250VDC	600VAC	8	1¼	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 250VDC	600VAC	8	1¼ 2	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 250VDC	600VAC	8	1¼ 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 250VDC	600VAC	8	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	8	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				
Receptacle with Spring Door Housing		Section 6C		Hub Size	Ckt. Bkr. Amps	Without Circuit Breaker Cat. #	With Circuit Breaker	
		Table	List				Cutler-Hammer “KB” Cat. #	General Electric “TFK” Cat. #
200 amp.	3-pole,	11	12W	3	125	EPC604-2042	EPC604-2042-WT125-3	EPC605-2042-TT125-3
3-wire,	600VAC				150		EPC604-2042-WT150-3	EPC605-2042-TT150-3
4-pole,	or				175		EPC604-2042-WT175-3	EPC605-2042-TT175-3
Style 2	250VDC				200		EPC604-2042-WT200-3	EPC605-2042-TT200-3
					225*		EPC604-2042-WT225-3	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.

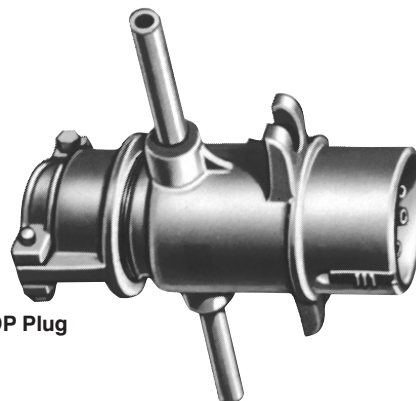
4P
Interlocked
Plugs and
Receptacles

4P

APJ/NPJ♦♦ and DP Arktime® Plugs with Cable Grip and Neoprene Bushing

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

Dust-Ignitionproof
Raintight
Wet Locations



APJ Plug

NPJ Plug

DP Plug

APJ/NPJ and DP Arktime Plugs

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

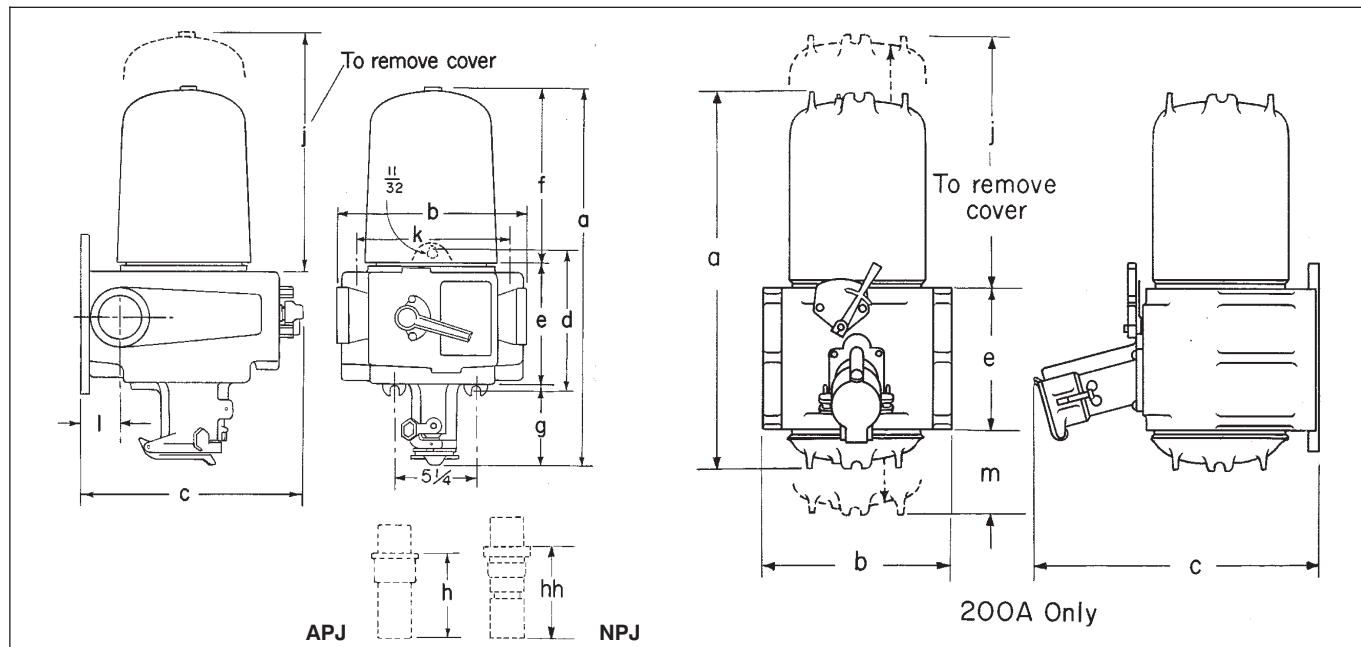
Amps	Cable O.D. Range	2-wire, 3-pole Cat. #	3-wire, 4-pole Cat. #
30	0.60 to 1.20	APJ3385	APJ3485
	0.55 to 0.70	NPJ3383	NPJ3483
	0.70 to 0.85	NPJ3384	NPJ3484
60	0.75 to 1.45	APJ6385	APJ6485
	0.75 to 1.07	NPJ6384	NPJ6484
	1.07 to 1.35	NPJ6385	NPJ6485
100	1.00 to 1.70	APJ10387	APJ10487
	0.93 to 1.21	NPJ10386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

Solder Only
.56 Wire Well

♦♦ 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).

DP Wire Size	
Building #1 – 4/0	Extra Flex #1 – 3/0

Dimensions



Interlocked
Plugs and
Receptacles
4P

Recept.	Breaker	a	b	c	d	e	f	g	h	hh	j	k	l	m
30 Amp.	20-50 Amp.	24	10 ⁵ / ₁₆	14 ³ / ₁₆	9 ³ / ₁₆	7 ¹¹ / ₁₆	11 ³ / ₄	4 ⁹ / ₁₆	4 ¹³ / ₁₆	7	20 ³ / ₄	7 ³ / ₈	1 ¹ / ₁₆	
60 Amp.	50 Amp.	24 ¹ / ₂	10 ⁵ / ₁₆	14 ³ / ₁₆	9 ³ / ₁₆	7 ¹¹ / ₁₆	11 ³ / ₄	5 ¹ / ₁₆	5 ¹³ / ₁₆	6 ¹³ / ₁₆	20 ³ / ₄	7 ³ / ₈	2 ¹ / ₁₆	
60 Amp.	70-100 Amp.	24 ¹ / ₂	12 ¹³ / ₁₆	14 ³ / ₁₆	9 ³ / ₁₆	7 ¹¹ / ₁₆	11 ³ / ₄	5 ¹ / ₁₆	5 ¹³ / ₁₆	6 ¹³ / ₁₆	20 ³ / ₄	9 ¹ / ₄	2 ⁵ / ₈	
100 Amp.	70-100 Amp.	25 ¹ / ₄	12 ¹³ / ₁₆	14 ³ / ₁₆	9 ³ / ₁₆	7 ¹¹ / ₁₆	11 ³ / ₄	5 ¹³ / ₁₆	6 ⁵ / ₈	7 ³ / ₄	20 ³ / ₄	9 ¹ / ₄	2 ⁵ / ₈	
200 Amp.	125-225 Amp.	36	18	27		13 ¹ / ₂					34 ¹ / ₄			5 ¹ / ₂

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

EPCB Circuit Breakers and Enclosures with Interlocked Arktime® Receptacles

APJ/NPJ Arktime Plugs ♦♦

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

Dust-Ignitionproof
Raintight
Wet Locations

4P

Application:

- 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 outdoor, 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 1¼" 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 1½" of each conduit opening

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

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

- Plugs listed for use with EPCB assemblies are standard *Arktime* 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 DR receptacles listed in Section 2P and DBR and EPC 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

Standard Materials:

- 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 suffix to Cat. No.:

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. Available as follows:

Receptacle interior rotated 22½ degrees to right (viewed from face) and plug changed to match

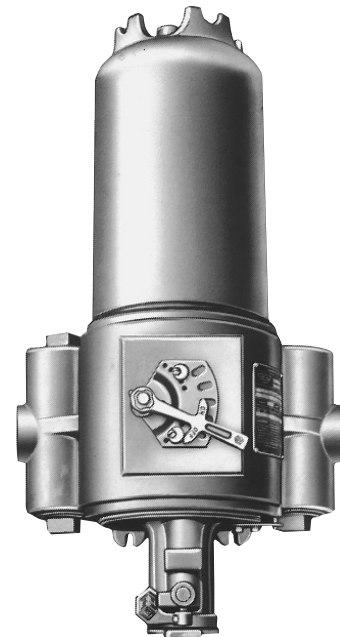
Side bosses drilled and tapped same size as standard hubs

Back boss drilled and tapped same size as standard hubs

S4 S366 S367

♦♦ Pressure connectors are supplied as standard.

To specify crimp/solder type terminations add the suffix "T" to the catalog number. For example: APJ3365-T (Plug)



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

Suffix to be
Added to Encl.
Cat. #

4P
Interlocked
Plugs and
Receptacles

4P

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
Cl. III
NEMA/EFC 3,7BCD,9FG,12
Explosionproof

Dust-Ignitionproof
Raintight
Wet Locations

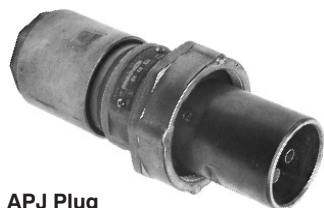
100 Ampere Frame Size Thermal-Magnetic Circuit Breaker with Non-Interchangeable Thermal Trip and Non-Adjustable Magnetic Trip

Circuit Breaker		Enclosure with Circuit Breaker			
Receptacle with Spring Door Housing	Rating	Hub Size	Ckt. Bkr. Amps	Cutler-Hammer	General Electric
30 amp. 2-wire, 3-pole, Style 2	2-pole, 600VAC or 250VDC	1 1/4	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 250VDC	1 1/4	20 30 40* 50*	EPCB43642-WT20HFD-3 EPCB43642-WT30HFD-3 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 250VDC	1 1/4	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 250VDC	1 1/4	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 250VDC	1 1/4	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 250VDC	1 1/4	70† 90† 100†	EPCB41642-WT70HFD-3 EPCB41642-WT90HFD-3 EPCB41642-WT100HFD-3	EPCB41642-TT70TED-3 EPCB41642-TT90TED-3 EPCB41642-TT100TED-3

* 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 6C.

♦♦ 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)

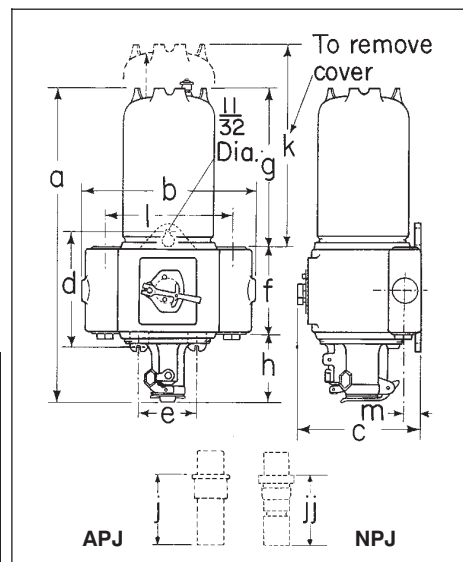


APJ Plug



NPJ Plug

Dimensions



APJ/NPJ 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. #
30	0.60 to 1.20	APJ3385	APJ3485
	0.55 to 0.70	NPJ3383	NPJ3483
	0.70 to 0.85	NPJ3384	NPJ3484
60	0.75 to 1.45	APJ6385	APJ6485
	0.75 to 1.07	NPJ6384	NPJ6484
	1.07 to 1.35	NPJ6385	NPJ6485
100	1.00 to 1.70	APJ10387	APJ10487
	0.93 to 1.21	NPJ10386	NPJ10486
	1.21 to 1.50	NPJ10387	NPJ10487

Receptacle	a	b	c	d	e	f							
30 Amp.	26¼	11⅝ ₁₆	11¾	8⅝ ₈	5	7¾							
60 Amp.	26¾	11⅝ ₁₆	11¾	8⅝ ₈	5	7¾							
100 Amp.	27½	11⅝ ₁₆	11¾	8⅝ ₈	5	7¾							
Receptacle	g	h	j	jj	k	l	m						
30 Amp.	13⅞ ₁₆	4⅟ ₁₆	4⅟ ₁₆	7	24¾	8⅟ ₁₆	1⅞ ₈						
60 Amp.	13⅞ ₁₆	5⅟ ₁₆	5⅟ ₁₆	6⅟ ₁₆	24¾	8⅟ ₁₆	1⅞ ₈						
100 Amp.	13⅞ ₁₆	6⅟ ₁₆	6⅝ ₈	7¾	24¾	8⅟ ₁₆	1⅞ ₈						

Dim "j" and "jj" are exposed portion of plug when engaged with receptacle.

DBR Interlocked Arktite® Receptacles With Enclosed Circuit Breakers

APJ/NPJ Arktite Plugs ♦ ♦

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

4P

Application:

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.

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 DR receptacles listed in Section 2P and 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.

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

Standard Finishes:

- Copper-free aluminum – plug exterior, enclosure and receptacle housing – natural
- 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. No.

Suffix to be Added to 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.

Available as follows:

- Receptacle interior rotated 22½ degrees clockwise when viewed from receptacle face and plug changed to match S4
 - Breather (drain furnished as standard) S219
- Conduit arrangements other than standard can be supplied. Details on request

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

Electrical Rating Ranges:

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

Amps	a	b	bb
30	21¾	6½	7
60	22¾	8½	613/16
100	23½	10½	7¾

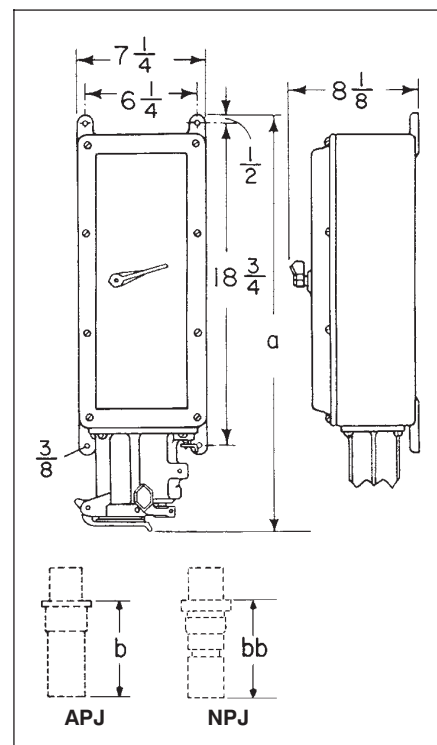
Dim. "b" and "bb" are exposed portion of plug when engaged with receptacle.



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.

♦ ♦ Pressure connectors are standard. Crimp/solder type terminators are optionally available for 3 and 4-pole, 30, 60 and 100 ampere. For details, see table on page 969. To specify, add the suffix "T" to the catalog number. For example: AP3375-T (Plug)

Dimensions:



4P
Interlocked
Plugs and
Receptacles

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

100 Ampere Frame Size with Non-Interchangeable Thermal Trip and Non-Adjustable Magnetic Trip

Receptacle With Spring Door Housing†	Circuit Breaker Rating	Enclosure		Without Circuit Breaker Cat. #	With Circuit Breaker Cat. # Cutler-Hammer "FDB"
		Hub Size	Ckt. Bkr. Amps		
30 amp., 3-wire, 3-pole, Style 1	3-pole 600VAC	1½	20	DBR53731	DBR53731-WT20-3
			30		DBR53731-WT30-3
			40		DBR53731-WT40-3*
			50		DBR53731-WT50-3*
30 amp., 2-wire, 3-pole, Style 2	2-pole 600VAC or 250VDC	1½	20	DBR53732	DBR53732-WT20-2
			30		DBR53732-WT30-2
			40		DBR53732-WT40-2*
			50		DBR53732-WT50-2*
30 amp., 3-wire, 4-pole, Style 2	3-pole 600VAC	1½	20	DBR53742	DBR53742-WT20-3
			30		DBR53742-WT30-3
			40		DBR53742-WT40-3*
			50		DBR53742-WT50-3*
60 amp., 3-wire, 3-pole, Style 1	3-pole 600VAC	1½	50	DBR56731	DBR56731-WT50-3
			60		DBR56731-WT60-3
			70		DBR56731-WT70-3*
			90		DBR56731-WT90-3*
			100		DBR56731-WT100-3*
60 amp., 2-wire, 3-pole, Style 2	2-pole 600VAC or 250VDC	1½	50	DBR56732	DBR56732-WT50-2
			60		DBR56732-WT60-2
			70		DBR56732-WT70-2*
			90		DBR56732-WT90-2*
			100		DBR56732-WT100-2*
60 amp., 3-wire, 4-pole, Style 2	3-pole 600VAC	1½	50	DBR56742	DBR56742-WT50-3
			60		DBR56742-WT60-3
			70		DBR56742-WT70-3*
			90		DBR56742-WT90-3*
			100		DBR56742-WT100-3*
100 amp., 3-wire, 3-pole, Style 1	3-pole 600VAC	1½	60	DBR51731	DBR51731-WT60-3
			70		DBR51731-WT70-3
			90		DBR51731-WT90-3
			100		DBR51731-WT100-3
100 amp., 2-wire, 3-pole, Style 2	2-pole 600VAC or 250VDC	1½	60	DBR51732	DBR51732-WT60-2
			70		DBR51732-WT70-2
			90		DBR51732-WT90-2
			100		DBR51732-WT100-2
100 amp., 3-wire, 4-pole, Style 2	3-pole 600VAC	1½	60	DBR51742	DBR51742-WT60-3
			70		DBR51742-WT70-3
			90		DBR51742-WT90-3
			100		DBR51742-WT100-3

* Circuit breaker trip rating may exceed receptacle rating for welding equipment applications only, as higher trip rating may not protect wiring.

◆◆ Pressure connectors are standard. Crimp/solder type terminators are optionally available for 3 and 4-pole 30, 60 and 100 ampere. For details, see table on page 969.

To specify, add the suffix "T" to the catalog number. For example: APJ3375-T (Plug)

† Style 1 – Grounded through shell.

Style 2 – Grounded through extra pole and shell. For a detailed description of these grounding methods, see page 967.

‡ For circuit breaker Cat. No. refer to Section 6C, Table 9, List FDB. For detailed information on circuit breaker selection, see Section 6C.

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



APJ Plug



NPJ Plug

Amps	Cable O.D. Range	Style 1†	Style 2†
		3-wire, 3-pole Cat. #	2-wire, 3-pole Cat. #
30	0.60 to 1.20	APJ3375	APJ3385
	0.55 to 0.70		NPJ3383
	0.70 to 0.85		NPJ3384
60	0.75 to 1.45	APJ6375	APJ6385
	0.75 to 1.07		NPJ6384
	1.07 to 1.35		NPJ6385
100	1.00 to 1.70	APJ10377	APJ10387
	0.93 to 1.21		NPJ10386
	1.21 to 1.50		NPJ10387
			3-wire, 4-pole Cat. #
			APJ3485
			NPJ3483
			NPJ3484
			APJ6485
			NPJ6484
			NPJ6485
			APJ10487
			NPJ10486
			NPJ10487