### BHR dead front interlocked receptacles with factory sealed switch

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

Explosionproof **Dust-ignitionproof** Raintight Wet Locations

ΔP

#### 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- BHR receptacles feature a built-in rotary switch which is operated automatically when the plug is inserted and withdrawn; the switch, capable of making and breaking the circuit at full rated load, is operated by a helical blade in the center of the plug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load; when the plug is inserted, the plug and receptacle contacts engage before the switch closes; when the plug is withdrawn, the switch opens before the plug and receptacle contacts disengage; this sequence of operation provides maximum safety in a dead front receptacle; arcing is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 dusttight 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 to 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
- Assemblies are available for top, bottom or through feed conduit arrangements in 3/4" to 2" sizes

#### **Certifications and** compliances:

- Class I, Divisions 1 & 2, Groups B, C, D
- Class II, Divisions 1 & 2, Groups F, G
- Class III
- NEMA 3, 4, 7BCD, 9FG, 12
- ANSI/UL standard: UL1010

#### 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:**

#### Description

• Special polarity...... Details upon request 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

#### **Electrical ratings:**

• 30, 60, 100 amperes: 480 VAC

Dimensions (in inches):



BHR/BHP in use



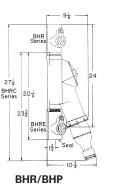
BHR/BHP separated, showing helical driver

### Grounding:

Suffix

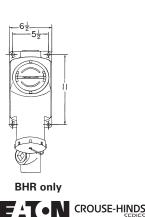
· BHR receptacles and BHP plugs are provided with an extra grounding pole. In plugs, provision is made for attachment of the grounding wire to the grounding pole. In addition, direct connection is provided between the plug and receptacle housings and the grounding pole. In the receptacle, grounding is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

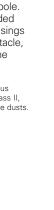
CAUTION: To reduce the risk of ignition of hazardous atmospheres, do not use plugs or receptacles in Class II, Group F locations that contain electrically conductive dusts.



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Explosionproof Dust-ignitionproof Raintight Wet Locations

ΔP

#### **Ordering information:**

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.

Amperage	Configuration	Hub size	Cat. #
	2-wire, 3-pole	3/4"	BHRC3382N
	2-wire, 3-pole	1″	BHRC3383N
20	3-wire, 4-pole	3/4"	BHRC3482D
30	3-wire, 4-pole	1″	BHRC3483D
	4-wire, 5-pole	1″	BHRC3583 NW
	4-wire, 5-pole	11/4"	BHRC3584 NW
	2-wire, 3-pole	11/4"	BHRC6384N
	2-wire, 3-pole	11/2"	BHRC6385N
60	3-wire, 4-pole	11/4"	BHRC6484D
60	3-wire, 4-pole	11/2"	BHRC6485D
	4-wire, 5-pole	11/4"	BHRC6584 NW
	4-wire, 5-pole	1 <sup>1</sup> / <sub>2</sub> "	BHRC6585 NW
	2-wire, 3-pole	11/4"	BHRC10384N
	2-wire, 3-pole	11/2"	BHRC10385N
100	3-wire, 4-pole	11/2"	BHRC10485D
100	3-wire, 4-pole	2″	BHRC10486D
	4-wire, 5-pole	11/2"	BHRC10585 NW
	4-wire, 5-pole	2″	BHRC10586 NW

#### **BHP** plugs 480 VAC, 60-400 Hz

BHP 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.

Amperage	ge Configuration Cable diameter		Cat. #	
	2-wire, 3-pole	0.500 - 0.875"	BHP3383N	
	2-wire, 3-pole	0.875 - 1.375"	BHP3385N	
30	3-wire, 4-pole	0.500 - 0.875"	BHP3483D	
30	3-wire, 4-pole	0.875 - 1.375"	BHP3485D	
	4-wire, 5-pole	0.500 - 0.875"	BHP3583 NW	
	4-wire, 5-pole	0.875 - 1.375"	BHP3585 NW	
	2-wire, 3-pole	0.500 - 0.875"	BHP6383N	
	2-wire, 3-pole	0.875 - 1.375"	BHP6385N	
60	3-wire, 4-pole	0.500 - 0.875"	BHP6483D	
60	3-wire, 4-pole	0.875 - 1.375"	BHP6485D	
	4-wire, 5-pole	0.875 - 1.375"	BHP6585 NW	
	4-wire, 5-pole	1.375 - 1.875"	BHP6587 NW	
	2-wire, 3-pole	0.875 - 1.375"	BHP10385N	
	2-wire, 3-pole	1.375 - 1.875″	BHP10387N	
100	3-wire, 4-pole	0.875 - 1.375"	BHP10485D	
100	3-wire, 4-pole	1.375 - 1.875″	BHP10487D	
	4-wire, 5-pole	0.875 - 1.375"	BHP10585 NW	
	4-wire, 5-pole	1.375 - 1.875″	BHP10587 NW	

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# SRD dead front interlocked receptacles with factory sealed switch

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

ΔP

#### **Applications:**

SRD dead front interlocked receptacles and switches with 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 dusttight 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 to 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

## Certifications and compliances:

#### NEC:

- Class I, Divisions 1 & 2, Group D
- Class II, Divisions 1 & 2, Groups F, G
- Class III
- NEMA:
- NEMA 3, 7D, 9FG, 12
- ANSI/UL standard:
- UL1010

#### 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**:

#### Description

 Special polarity...... Details upon request 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

Suffix

#### **Electrical ratings:**

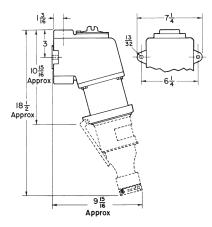
- 30 and 60 amperes; 480 VAC
- SP plugs 480 VAC, 60-400 Hz

### 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 dusts

### Dimensions (in inches):



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# SRD dead front interlocked receptacles with factory sealed switch

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

ΔP

#### **Ordering information:**



Back box – 1<sup>1</sup>/<sub>4</sub>" vertical through feed hubs







SRD receptacle with spring door

SP plug

SRD receptacle with threaded cap

With cable grip and neoprene bushing

Amperage	Description	Cat. # With spring door	bushing		Cat. # With threaded	bushing	
			Cable diameter	Cat. #	cap	Cable diameter	Cat. #
2-w	2 wire 2 polo	SRD3324N	0.500 - 0.875"	SP3363N	SRD3384N	0.500 - 0.875"	SP3383N
	2-wire, 3-pole		0.875 - 1.375"	SP3365N	- ShD3304W	0.875 - 1.375"	SP3385N
20	Quuiro Anolo	SRD3424D	0.500 - 0.875"	SP3463D		0.500 - 0.875"	SP3483D
30 3-wire, 4-pole 4-wire, 5-pole	3-wire, 4-pole		0.875 - 1.375"	SP3465D	3hD3404D	0.875 - 1.375"	SP3485D
	Aurira Enala	SRD3524 NW	0.500 - 0.875"	SP3563 NW		0.500 - 0.875"	SP3583 NW
	4-wire, 5-poie		0.875 - 1.375"	SP3565 NW	- SKD3584 IVW	0.875 - 1.375"	SP3585 NW
60	2-wire, 3-pole	SRD6324N	0.500 - 0.875"	SP6363N	SRD6384N	0.500 - 0.875"	SP6383N
			0.875 - 1.375"	SP6365N		0.875 - 1.375"	SP6385N
	3-wire, 4-pole	SRD6424D	0.500 - 0.875"	SP6463D	SRD6484D	0.500 - 0.875"	SP6483D
			0.875 - 1.375"	SP6465D		0.875 - 1.375"	SP6485D
	4-wire, 5-pole	SRD6524 NW	0.875 - 1.375"	SP6565 NW	SRD6584 NW	0.875 - 1.375"	SP6585 NW
			1.375 - 1.875"	SP6567 NW		1.375 - 1.875"	SP6587 NW

With cable grip and neoprene





