**Plugs & Receptacles** 



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# PowerMate™ drilling pin and sleeve connectors



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# Safe. Reliable. Fast. Connections

The ideal rig power connection solution

- Longer product life
- Reduced maintenance
- Enhanced safety

TAGE

Easy to install

# PowerMate<sup>™</sup> Series

## Drilling rig pin and sleeve power connections



PowerMate<sup>™</sup> is designed to support the modularity of drilling rig systems by providing safe and reliable power connections for rigging-up and rigging-down equipment quickly and efficiently.

#### The ideal rig power connection solution

- Longer product life
- Reduced maintenance
- Enhanced safety
- Easy-to-install

#### Compatible with all UL1686 Listed plugs and receptacles

- Eaton's Crouse-Hinds Arktite®
- Appleton Powertite®
- Killark VersaMate<sup>®</sup>

#### Application

- On SCR/VFD houses to provide power to rig equipment such as shakers, agitators, lighting circuits, mud pumps, motors, etc.
- Quickly and efficiently connect power during rig-ups and disconnect power during rig-downs

#### EXCLUSIVE FEATURES

- Lockout plug
- · Fixed safety insulator
- Diamond cable clamp
- Split pin contacts
- Suited for use with Type P cable

## **Specifications & features**

#### Handle body

- Thick epoxy powder coating is standard finish on PowerMate products.
- Coating reduces corrosion and increases life of product.
- Industry standard profile increases ease of plugging and unplugging.

#### Insulator assemblies

- Unimpeded, easy-access phase and ground terminals make wire termination quick and easy.
- Molded-in-place markings for phase/ground and conductor strip lengths reduce installation errors. (60, 100 and 150A only)



#### Spring and threaded cover options

- Each 30, 60, 100 and 150A receptacle comes with both spring cap and threaded cap to provide a variety of cover options.
- 200A comes with spring cap and wing nuts to ensure environmental sealing.



#### Extended cable range

- Industry's largest cable diameter range.
- Specifically designed, third party tested and certified for use with Type P cable.
- Sealing system utilizes industry standard bushings.

#### Combination slot & hex lugs

- Increases ease of installation by allowing for more than one option for installation tools.
- Hex head allows for easy achievement of specified torque value.

#### Combination drive stainless steel hardware

- Increases ease of installation by allowing for more than one option for installation tools.
- Stainless steel external hardware eliminates corrosion on critical components and extends product life.

#### Enhanced nomenclature and nameplate

- Easily understandable nomenclature increases ease of part configuration identification.
- Mechanically attached nameplate ensures that critical information is permanently fixed to product.

### **Exclusive features**



#### 8-point diamond cable clamps

- 8 points of contact around diameter of cable for increased grip and even distribution of pressure.
- Cable jacket does not get pinched, eliminating potential for damage to internal conductors.



#### Split pin contact design

- Provides nearly 360° of contact at every insertion, ensuring protection against heat rise and eliminating arcing on critical surfaces.
- Self-wiping at every insertion to remove foreign particles that create electrical resistance and product failure.



#### Lockout plug

- Guarantees isolated power supply with OSHA compliant lockout/tagout.
- Ensures plug cannot be inserted into receptacle when maintenance is being performed downstream of power supply.

#### **Fixed safety insulator**

- Prevents electrical shock and shorts with plastic barrier between insulator body and metal housing.
- Fixed-in-place design ensures insulator will not be lost or discarded during cable termination process. (30, 60, 100 and 150A only)

#### **Electrical ratings**

• 30, 60, 100, 150, 200A 600 VAC/250 VDC

#### **Certifications and compliances**

- Plugs (CCP 30-150A, including CCP3034) hazardous location rated when used with Crouse-Hinds interlocked receptacles (ex. FSQC, EBBR models)
  - Class I, Division 1, Groups B, C, D (excludes 200A)
  - Class II, Division 1, Groups F, G (excludes 200A)
- CE marked (excludes RS option and 200A)
- UL standards
  - UL1682; UL1686; NEMA250; IEC60309-1; IEC60309-2
- CSA standard
  - CSA 22.2 No. 182.1
- Suited for use with Type P cable, flexible cord and cables rated for extra hard usage
- NEMA 4X

#### Standard materials

- Receptacle housing, plug and cord connector bodies high impact strength copperfree aluminum (less than 0.4% copper)
- Back boxes cast aluminum
- Insulation fiberglass reinforced polyester
- Contacts naval brass

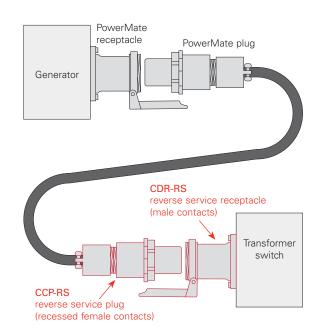
#### **Standard finishes**

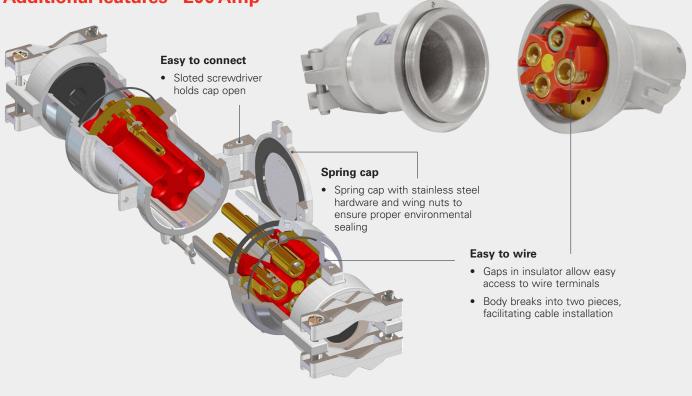
- Copper-free aluminum epoxy powder coat
- · Fiberglass reinforced polyester natural (red)
- Naval brass natural

### Additional features - 200 Amp

#### Options

- Special polarity receptacle interior rotated 22.5° to the right and plug changed to match. 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 and/or frequencies. Prevents insertion of a plug in a receptacle with different electrical rating.
- Reverse service receptacle assembled with plug interior and plug assembled with receptacle interior. Used in applications where plug is energized to feed normally de-energized receptacle. Interiors are field interchangeable using only a screwdriver. (\* excludes 150 and 200A)







# **Ordering information**

Part number example and description

#### CCP3034BC-RS

Eaton's Crouse-Hinds PowerMate™ plug, 30A, 3 wire, 4 pole, 0.390-1.375" cable range, reverse service

	CCP	30		3	4		BC	)	-	_		RS
	•											
Product	t type		Wire	•	Pole		_				Optio	ns
ССР	Plug		2*	2 wire	2	2 pole					-RS	Reverse
CDR	Receptacle		3	3 wire	3	3 pole						service
CRC	Connector		4	4 wire	4	4 pole					-P4	Special polarity
CDRE*	Receptacle with CEE back box		* Avai	lable with 30A,								polarity
CDJA**	Receptacle with CJA back box		60A a	nd 100A								
* Available receptacle	e with 30A and 60A e		produ	Ct								
**Availab 200A rece	le with 60A, 100A, 150A and eptacle								Hub s (recep	ize otacle w	ith back	box only)*
									50	1⁄2"		
									75	3⁄4"		
Ampera	age						•		100	1"		

	- <b>J</b> -
30	30 Amp
60	60 Amp
10	100 Amp
150	150 Amp
200	200 Amp

Cable range (plug & connector only)*				
BC	0.390 to 1.375"			
CD	0.875 to 1.906"			
DE	1.250 to 2.190"			
Е	1.875 to 2.500"			
F	2.500 to 3.000"			
G	3.000 to 3.500"			

\* Cable range only applies to specific plug part numbers

\* Hub size only applies to specific receptacle part numbers



#### Amn rating Voltage

Ampiruting	Voltage
30, 60, 100, 150, 200	600 VAC, 50 to 400Hz 250 VDC*

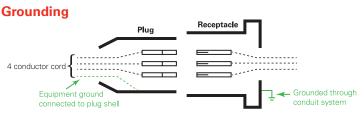
\* This guide is for reference only. Consult your local electrical codes before installation.

#### Maximum horsepower for plug and receptacle combinations by input voltage

Typical horsepower ratings based on NEC Article 430 tables. HP ratings are based on the largest conductor size for each plug and receptacle combination.

\*\* Eaton's Crouse-Hinds recommends circuit breaking use be limited to emergency conditions only and that a horsepower rated switch or Crouse-Hinds interlocked receptacle be used for making and breaking under load.

A	Motor horsepower**						
Amp rating	240V	480V	600V				
30	15	30	40				
60	20	40	50				
100	30	60	75				
150	40	75	100				
200	60	125	150				



125

150 200

250

300

350

400

500

1-1/4' 1-1/2"

2"

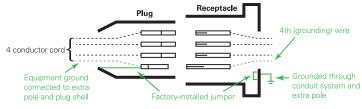
2-1/2'

3-1/2" 4"

3"

5"

Style 1 units complete the grounding circuit through the metallic plug shell, receptacle housing or connector shell



Style 2 units with metal housing have a separate designated ground contact that is bonded to the metallic housing. The metallic housing of the plug, receptacle or connector forms a parallel ground circuit through the receptacle or connector detent spring.

EATON'S CROUSE-HINDS PowerMate pin and sleeve power connectors

#### Wire sizes

The wire size table lists the diameter of the wire recess in PowerMate plug and receptacle contacts so that maximum size of bare conductor can be determined. Range of wire sizes shown in table are intended only as a guide. Depending on type of wire used (building wire, flexible or extra flexible cable) and its construction (number and size of strands), bare copper diameters vary widely.

#### Diameter: wire recess in plug & receptacle contacts

Amperage rating	Contact type	Diameter of recess	Wire size* extra flex
30 (2, 3 & 4 pole)	Pressure	0.281″	#10 to #8
60 (2, 3 & 4 pole)	Pressure	0.312"	#8 to #4
100 (2, 3 & 4 pole)	Pressure	0.390"	#4 to #2
150 (4 pole)	Pressure	0.390"	#2 to 1/0
200 (3 & 4 pole)	Pressure	0.687"	2/0 to 250 MCM

\* Do not use wire size smaller than minimum size recommended

#### 30 Amp: Receptacles, plugs, connectors

		E	Plug		Cord connector	
Descript configu	tion & ration	Receptacle	Cable range	Part number	Cable range	Part number
2 wire 2 pole style 1	() () () () () () () () () () () () () (	CDR3022	0.390-1.375"	CCP3022BC	0.390-1.375″	CRC3022BC
2 wire 3 pole style 2	Ø Ø Ø GR	CDR3023	0.390-1.375"	CCP3023BC	0.390-1.375″	CRC3023BC
3 wire 3 pole style 1		CDR3033	0.390-1.375″	CCP3033BC	0.390-1.375″	CRC3033BC
3 wire 4 pole style 2	Ø Ø Ø Ø GR	CDR3034	0.390-1.375"	CCP3034BC	0.390-1.375″	CRC3034BC
4 wire 4 pole style 1		CDR3044	0.390-1.375"	CCP3044BC	0.390-1.375″	CRC3044BC

Back boxes							
Hub size	CEE	CERH	CERC				
1⁄2"	CEE13	CERH13	CERC13				
1-1⁄4"	CEE23	CERH23	CERC23				
1-1⁄2"	CEE33	CERH33	CERC33				

- Standard Corro-Free™ epoxy powder coat finish for increased corrosion resistance
- For optional reversed interior, use suffix **-RS**
- For optional rotated interior, use suffix **-P4**
- Maximum conductor size (wire well) 0.281"

#### 60 Amp: Receptacles, plugs, connectors

		SI	Plug		Cord connector	
Description configurati	n & ion	Receptacle	Cable range	Part number	Cable range	Part number
2 wire 2 pole style 1	Ø Ø GR	CDR6022	0.440-1.375"	CCP6022BC	0.440-1.375″	CRC6022BC
2 wire 3 pole style 2	Ø Ø GR	CDR6023	0.440-1.375"	CCP6023BC	0.440-1.375"	CRC6023BC
3 wire 3 pole ( style 1	Ø Ø GR	CDR6033	0.440-1.375"	CCP6033BC	0.440-1.375″	CRC6033BC
3 wire, 4 pole ( style 2	0 0 0 0 GR	CDR6034	0.440-1.375"	CCP6034BC	0.440-1.375"	CRC6034BC
4 wire 4 pole ( style 1	0 0 0 0 0 0	CDR6044	0.440-1.375"	CCP6044BC	0.440-1.375"	CRC6044BC

Back	boxes	9a		
Hub size	CEE	CERH	CJA	CERC
1⁄2"	CEE36	CERH36	CJA310	CERC36
1-1⁄4"	CEE46	CERH46	CJA410	CERC46
1-1⁄2"	CEE56	CERH56	CJA510	CERC56
2"	-	-	CJA610	-

• Standard Corro-Free<sup>™</sup> epoxy powder coat finish for increased corrosion resistance

- For optional reversed interior, use suffix -RS
- For optional rotated interior, use suffix -P4
- Maximum conductor size (wire well) 0.312"

#### 100 Amp: Receptacles, plugs, connectors

		SC	Plug		Cord connector	
Description configuration	& on	Receptacle	Cable range	Part number	Cable range	Part number
2 wire 2 pole style 1	Ø Ø GR	CDR1022	0.875-1.906"	CCP1022CD	0.875-1.906"	CRC1022CD
2 wire 3 pole style 2	Ø Ø Ø GR	CDR1023	0.875-1.906"	CCP1023CD	0.875-1.906"	CRC1023CD
3 wire 3 pole style 1	Ø Ø GR	CDR1033	0.875-1.906"	CCP1033CD	0.875-1.906"	CRC1033CD
3 wire 4 pole style 2	Ø ØF	CDR1034	0.875-1.906"	CCP1034CD	0.875-1.906"	CRC1034CD
4 wire 4 pole style 1	000	CDR1044	0.875-1.906"	CCP1044CD	0.875-1.906"	CRC1044CD

#### 150 Amp: Receptacles, plugs, connectors

		SO	Plug		Cord connector	
Descript configur	ion & ation	Receptacle	Cable range	Part number	Cable range	Part number
3 wire		CDR15034	0.875-1.906"	CCP15034CD	0.875-1.906"	CRC15034CD
4 pole style 2	Co Cr	CDR 15034	1.250-2.190"	CCP15034DE	1.250-2.190"	CRC15034DE
4 wire	00	CDR15044	0.875-1.906"	CCP15044CD	0.875-1.906"	CRC15044CD
4 pole style 1	GR	GDN 13044	1.250-2.190"	CCP15044DE	1.250-2.190"	CRC15044DE

#### 200 Amp: Receptacles, plugs, connectors

5	Tal		5	Carla
Co de	Plug		Cord connect	tor
Receptacle	Cable range	Part number	Cable range	Part number
CDB30033	0.875-1.906"	CCP20023CD	0.875-1.906"	CRC20023CD
CDR20023	1.875-2.500"	CCP20023E	1.875-2.500"	CRC20023E
CDB20033	0.875-1.906"	CCP20033CD	0.875-1.906"	CRC20033CD
CDN20033	1.875-2.500"	CCP20033E	1.875-2.500"	CRC20033E
CDP20024	0.875-1.906"	CCP20034CD	0.875-1.906"	CRC20034CD
CDN20034	1.875-2.500"	CCP20043E	1.875-2.500"	CRC20034E
CDB20044	0.875-1.906"	CCP20044CD	0.875-1.906"	CRC20044CD
GDN20044	1.875-2.500"	CCP20044E	1.875-2.500"	CRC20044E
	Receptacle   CDR20023   CDR20033   CDR20034   CDR20034	Receptacle   Cable range     CDR20023   0.875-1.906"     1.875-2.500"   0.875-1.906"     CDR20033   0.875-1.906"     CDR20034   0.875-1.906"     CDR20034   0.875-1.906"     CDR20034   0.875-1.906"     CDR20034   0.875-1.906"	Receptacle   Cable range   Part number     CDR20023   0.875-1.906"   CCP20023CD     1.875-2.500"   CCP20023E     CDR20033   0.875-1.906"   CCP20033CD     CDR20033   0.875-1.906"   CCP20033CD     1.875-2.500"   CCP20033E     0.875-1.906"   CCP20034CD     1.875-2.500"   CCP20034CD     1.875-2.500"   CCP20043E     0.875-1.906"   CCP20044CD	Receptacle   Cable range   Part number   Cable range     CDR20023   0.875-1.906"   CCP20023CD   0.875-1.906"     1.875-2.500"   CCP20023E   1.875-2.500"     CDR20033   0.875-1.906"   CCP20033CD   0.875-1.906"     CDR20033   0.875-1.906"   CCP20033CD   0.875-1.906"     CDR20034   0.875-1.906"   CCP20033CD   0.875-1.906"     CDR20034   0.875-1.906"   CCP20034CD   0.875-1.906"     0.875-1.906"   CCP20043E   1.875-2.500"     0.875-1.906"   CCP20044CD   0.875-1.906"

#### Back boxes:100 & 150 Amp

Hub size	CJA	CJA adapter only
1"	CJA310	
1-1⁄4"	CJA410	- - CJA100
1-1⁄2"	CJA510	- CJA100
2"	CJA610	-

- Standard Corro-Free™ epoxy powder coat finish for increased corrosion resistance
- For optional reversed interior, use suffix **-RS**
- For optional rotated interior, use suffix -P4
- Maximum conductor size (wire well) 0.390"

#### **Back boxes**

Hu siz		CJAC (throug feed)	h- CJA adapter only
1-1/2	2" CJA52	20 –	
2"	CJA62	20 –	CJA200
2-1/	2" CJA72	20 CJAC7	20

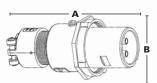
- Standard Corro-Free™ epoxy powder coat finish for increased corrosion resistance
- For optional reversed interior, use suffix **-RS**
- For optional rotated interior, use suffix -P4
- Maximum conductor size (wire well) 0.281"

#### **Dimensions**

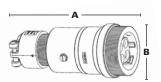
Receptacle



Plug



Connector



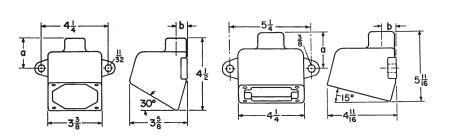
Receptacle	А	В
30A	2.8750	3.3750
60A, 3 pole	4.2500	4.5000
60A, 4 pole	4.2500	4.5000
100A, 3 pole	5.2500	4.2500
100A, 4 pole	5.2500	4.2500
150A CD	5.2500	4.2500
150A DE	5.2500	4.2500
200A	7.8750	7.1875

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Plug	Α	В
30A	6.5000	2.3125
60A, 3 pole	8.1700	3.6250
60A, 4 pole	8.1700	3.7500
100A, 3 pole	10.8000	3.7500
100A, 4 pole	10.8000	4.1250
150A CD	10.8000	4.1250
150A DE	10.8000	4.1250
200A	13.1250	7.5000

Connector	А	В
30A	6.6000	2.5625
60A, 3 pole	08.300	2.3125
60A, 4 pole	8.3000	2.3125
100A, 3 pole	11.5000	3.1875
100A, 4 pole	11.5000	3.4375
150A CD	11.5000	3.4375
150A DE	11.5000	3.4375
200A	14.0000	8.2000

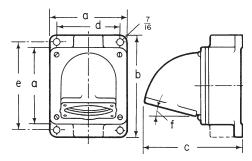
#### Back boxes: 30 & 60A only

Part number	Rating	Hub Size	Α	В
CEE13	30A	1⁄2"	1.8440	0.6875
CEE23	30A	3⁄4"	1.8440	0.8125
CEE33	30A	1"	1.9690	0.9375
CEE36	60A	1"	2.5625	0.9375
CEE46	60A	1-1⁄4"	2.6250	1.1875
CEE56	60A	1-1⁄2"	2.6875	1.3125



#### Back boxes with 60, 100, 150 & 200A angle adapters

Rating	Hub Size	Α	В	с	D	E	F
60, 100, 150A	1"	5.8750	8.0000	7.4375	4.8750	7.0000	15°
60, 100, 150A	1-1⁄4"	5.8750	8.0000	7.4375	4.8750	7.0000	15°
60, 100, 150A	1-1⁄2"	5.8750	8.0000	7.4375	4.8750	7.0000	15°
60, 100, 150A	2"	5.8750	8.0000	8.0000	4.8750	7.0000	15°
200A	1-1⁄2"	8.0000	10.7500	9.8750	6.7500	9.5000	45°
200A	2"	8.0000	10.7500	9.8750	6.7500	9.5000	45°
200A	2-1⁄2"	8.0000	10.7500	9.8750	6.7500	9.5000	45°
200A	2-1⁄2"	8.0000	10.7500	9.8750	6.7500	9.5000	45°
	60, 100, 150A 60, 100, 150A 60, 100, 150A 60, 100, 150A 200A 200A 200A	Rating   Size     60, 100, 150A   1"     60, 100, 150A   1-¼"     60, 100, 150A   1-½"     60, 100, 150A   2"     200A   1-½"     200A   2"     200A   2-½"	Rating   Size   A     60, 100, 150A   1"   5.8750     60, 100, 150A   1-¼"   5.8750     60, 100, 150A   1-½"   5.8750     60, 100, 150A   1-½"   5.8750     60, 100, 150A   2"   5.8750     200A   1-½"   8.0000     200A   2"   8.0000     200A   2-½"   8.0000	Rating   Size   A   B     60, 100, 150A   1"   5.8750   8.0000     60, 100, 150A   1-¼"   5.8750   8.0000     60, 100, 150A   1-½"   5.8750   8.0000     60, 100, 150A   1-½"   5.8750   8.0000     60, 100, 150A   2"   5.8750   8.0000     200A   1-½"   8.0000   10.7500     200A   2"   8.0000   10.7500	Rating   Size   A   B   C     60, 100, 150A   1"   5.8750   8.0000   7.4375     60, 100, 150A   1-¼"   5.8750   8.0000   7.4375     60, 100, 150A   1-¼"   5.8750   8.0000   7.4375     60, 100, 150A   1-½"   5.8750   8.0000   7.4375     60, 100, 150A   2"   5.8750   8.0000   9.8750     200A   1-½"   8.0000   10.7500   9.8750     200A   2"   8.0000   10.7500   9.8750     200A   2-½"   8.0000   10.7500   9.8750	Rating   Size   A   B   C   D     60, 100, 150A   1"   5.8750   8.0000   7.4375   4.8750     60, 100, 150A   1-¼"   5.8750   8.0000   7.4375   4.8750     60, 100, 150A   1-¼"   5.8750   8.0000   7.4375   4.8750     60, 100, 150A   1-½"   5.8750   8.0000   7.4375   4.8750     60, 100, 150A   2"   5.8750   8.0000   7.4375   4.8750     60, 100, 150A   2"   8.000   10.7500   9.8750   6.7500     200A   1-½"   8.0000   10.7500   9.8750   6.7500     200A   2-½"   8.0000   10.7500   9.8750   6.7500	Rating   Size   A   B   C   D   E     60, 100, 150A   1"   5.8750   8.0000   7.4375   4.8750   7.0000     60, 100, 150A   1-¼"   5.8750   8.0000   7.4375   4.8750   7.0000     60, 100, 150A   1-¼"   5.8750   8.0000   7.4375   4.8750   7.0000     60, 100, 150A   1-½"   5.8750   8.0000   7.4375   4.8750   7.0000     60, 100, 150A   2"   5.8750   8.0000   7.4375   4.8750   7.0000     60, 100, 150A   2"   5.8750   8.0000   8.0000   4.8750   7.0000     200A   1-½"   8.0000   10.7500   9.8750   6.7500   9.5000     200A   2"   8.0000   10.7500   9.8750   6.7500   9.5000

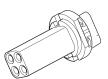


- Back boxes are standard with Corro-Free™ epoxy powder coat finish for increased corrosion resistance
- Through feed back boxes are furnished with one close-up plug in bottom recessed hub
- CJA back boxes are recommended when additional wiring space is required
- The angle adapter on CJA back boxes can be installed at 90° rotations, making it possible to enter hub from several directions

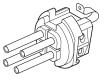
#### **Replacement parts**

Standard replacement parts

Complete in	nsulator assembly	30A	60A	100A	150A	200A
014/05	CDR-CRC	CRI-3022	CRI-6022	CRI-1022	-	-
2W2P	ССР	CPI-3022	CPI-6022	CPI-1022	-	-
014/05	CDR-CRC	CRI-3023	CRI-6023	CRI-1023	_	CRI-20023
2W3P	ССР	CPI-3023	CPI-6023	CPI-1023	-	CPI-20023
214/215	CDR-CRC	CRI-3033	CRI-6033	CRI-1033	-	CRI-20033
3W3P	ССР	CPI-3033	CPI-6033	CPI-1033	-	CPI-20033
204/40	CDR-CRC	CRI-3034	CRI-6034	CRI-1034	CRI-15034	CRI-20034
3W4P	ССР	CPI-3034	CPI-6034	CPI-1034	CPI-15034	CPI-20034
00/40	CDR-CRC	CRI-3044	CRI-6044	CRI-1044	CRI-15044	CRI-20044
4W4P	ССР	CPI-3044	CPI-6044	CPI-1044	CPI-15044	CPI-20044



CRI receptacle & connector interior



CPI plug interior

#### Miscellaneous replacement parts

Amperage	Configuration	CDR spring cover	CDR threaded cover	CCP fastening ring	Bushing kits
30	2, 3 & 4 pole	PTSC30	PTTC30	CLMPR30	PTGB30
60	2.2.9.4 polo	PTSC60A	PTTC60A	CLMPR23P60	DTCDCO
	2, 3 & 4 pole	PTSC60B	PTTC60B	CLMPR4P60	- PTGB60
100	0.0.0.4	PTSC100A	PTTC100A	CLMPR23P100	- PTGBCD
100	2, 3 & 4 pole	PTSC100B	PTTC100B	CLMPR4P100	- FIGBUD
150	4 polo	PTSC150B	PTTC150B	CLMPR4P150	PTGBCD (CD size)
150	4 pole	FISCIOUD	FIIGIOUD	ULIVIEN4EI DU	PTGBDE (DE size)





Spring cover

Threaded cover



Amperage	Configuration	CDR spring cover	Brass retaining ring	Plug contact	Plug ground contact	Receptacle contact	Receptacle ground contact	Bushing kit
200A	3 pole		PTBR2003	— PTPC200	PTPC200G	PTRC200	PTRC200G	PTGB200CD (CD size)
	4 pole	PTLC200	PTBR2004				PINCZUUG	PTGB200E (E size)



## **Crouse-Hinds drilling solutions**

#### Single pole power



#### Roughneck<sup>™</sup> Single Pole Series



Secure, single pole power, rated to 1135A for use in hazardous and normal locations. Ideal for delivering power to the top drive. **Rig Location** 1, 2, 4, 5, 6, 9, 10

#### Roughneck<sup>™</sup> Quick Connect



Quick connect, high amperage, single conductor connectors built to take heavy abuse while providing a simple, secure and safe connection. **Rig Location** 2, 4, 5, 6, 9, 10

#### Cam-Lok<sup>™</sup> Single Pole Series



Quickly connect and disconnect power systems safely. Used for motors, generators, indoor and outdoor lighting distribution panels and numerous other power applications.

**Rig Location** 1, 2, 4, 5, 6, 9, 10

#### Low to medium amp power



#### PowerMate<sup>™</sup> Series



Supplies power to portable devices such as motor generator sets, compressors, heating and cooling, welders and lighting from 30 to 200A. **Rig Location** 2, 4, 5

#### PowerGard<sup>™</sup> Series



Supplies power to lighting systems, lighting panels and portable hand tools on landbased rigs. **Rig Location** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

#### IEC 309 GHG 51 Series



#### Supplies power to portable devices with requirements of 16 to 125A and features an integrated AC3 rated disconnect switch. Reinforced polyester construction offers reliability from -20° to +55°C. **Rig Location** 7.8.9

#### **Multi-pin control**



#### Roughneck<sup>™</sup> Multi-pin Series



Heavy duty control and instrumentation multi-pin connectors for hazardous and harsh industrial use. **Rig Location** 1, 2, 4, 5, 6, 9, 10





hazardous areas

#### For more information:

If further assistance is required, please contact an authorized Eaton Distributor, Sales Office, or Customer Service Department.

#### U.S. (global headquarters): Eaton's Crouse-Hinds business

crousecustomerctr@eaton.com

1201 Wolf Street Syracuse, NY 13208 TEL: (866) 764-5454 FAX: (315) 477-5179

FAX Orders Only: (866) 653-0640

#### Mexico/Latin America/

**Caribbean:** TEL: 52-555-804-4000 FAX: 52-555-804-4020

ventascentromex@eaton.com

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**Plugs & Receptacles** 



+

# PowerMate™ drilling pin and sleeve connectors



1

4

# Safe. Reliable. Fast. Connections

The ideal rig power connection solution

- Longer product life
- Reduced maintenance
- Enhanced safety

TAGE

Easy to install

# PowerMate<sup>™</sup> Series

## Drilling rig pin and sleeve power connections



PowerMate<sup>™</sup> is designed to support the modularity of drilling rig systems by providing safe and reliable power connections for rigging-up and rigging-down equipment quickly and efficiently.

#### The ideal rig power connection solution

- Longer product life
- Reduced maintenance
- Enhanced safety
- Easy-to-install

#### Compatible with all UL1686 Listed plugs and receptacles

- Eaton's Crouse-Hinds Arktite®
- Appleton Powertite®
- Killark VersaMate<sup>®</sup>

#### Application

- On SCR/VFD houses to provide power to rig equipment such as shakers, agitators, lighting circuits, mud pumps, motors, etc.
- Quickly and efficiently connect power during rig-ups and disconnect power during rig-downs

#### EXCLUSIVE FEATURES

- Lockout plug
- · Fixed safety insulator
- Diamond cable clamp
- Split pin contacts
- Suited for use with Type P cable

## **Specifications & features**

#### Handle body

- Thick epoxy powder coating is standard finish on PowerMate products.
- Coating reduces corrosion and increases life of product.
- Industry standard profile increases ease of plugging and unplugging.

#### Insulator assemblies

- Unimpeded, easy-access phase and ground terminals make wire termination quick and easy.
- Molded-in-place markings for phase/ground and conductor strip lengths reduce installation errors. (60, 100 and 150A only)



#### Spring and threaded cover options

- Each 30, 60, 100 and 150A receptacle comes with both spring cap and threaded cap to provide a variety of cover options.
- 200A comes with spring cap and wing nuts to ensure environmental sealing.



#### Extended cable range

- Industry's largest cable diameter range.
- Specifically designed, third party tested and certified for use with Type P cable.
- Sealing system utilizes industry standard bushings.

#### Combination slot & hex lugs

- Increases ease of installation by allowing for more than one option for installation tools.
- Hex head allows for easy achievement of specified torque value.

#### Combination drive stainless steel hardware

- Increases ease of installation by allowing for more than one option for installation tools.
- Stainless steel external hardware eliminates corrosion on critical components and extends product life.

#### Enhanced nomenclature and nameplate

- Easily understandable nomenclature increases ease of part configuration identification.
- Mechanically attached nameplate ensures that critical information is permanently fixed to product.

### **Exclusive features**



#### 8-point diamond cable clamps

- 8 points of contact around diameter of cable for increased grip and even distribution of pressure.
- Cable jacket does not get pinched, eliminating potential for damage to internal conductors.



#### Split pin contact design

- Provides nearly 360° of contact at every insertion, ensuring protection against heat rise and eliminating arcing on critical surfaces.
- Self-wiping at every insertion to remove foreign particles that create electrical resistance and product failure.



#### Lockout plug

- Guarantees isolated power supply with OSHA compliant lockout/tagout.
- Ensures plug cannot be inserted into receptacle when maintenance is being performed downstream of power supply.

#### **Fixed safety insulator**

- Prevents electrical shock and shorts with plastic barrier between insulator body and metal housing.
- Fixed-in-place design ensures insulator will not be lost or discarded during cable termination process. (30, 60, 100 and 150A only)

#### **Electrical ratings**

• 30, 60, 100, 150, 200A 600 VAC/250 VDC

#### **Certifications and compliances**

- Plugs (CCP 30-150A, including CCP3034) hazardous location rated when used with Crouse-Hinds interlocked receptacles (ex. FSQC, EBBR models)
  - Class I, Division 1, Groups B, C, D (excludes 200A)
  - Class II, Division 1, Groups F, G (excludes 200A)
- CE marked (excludes RS option and 200A)
- UL standards
  - UL1682; UL1686; NEMA250; IEC60309-1; IEC60309-2
- CSA standard
  - CSA 22.2 No. 182.1
- Suited for use with Type P cable, flexible cord and cables rated for extra hard usage
- NEMA 4X

#### Standard materials

- Receptacle housing, plug and cord connector bodies high impact strength copperfree aluminum (less than 0.4% copper)
- Back boxes cast aluminum
- Insulation fiberglass reinforced polyester
- Contacts naval brass

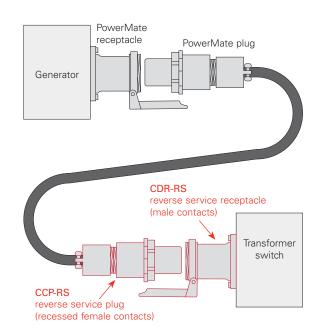
#### **Standard finishes**

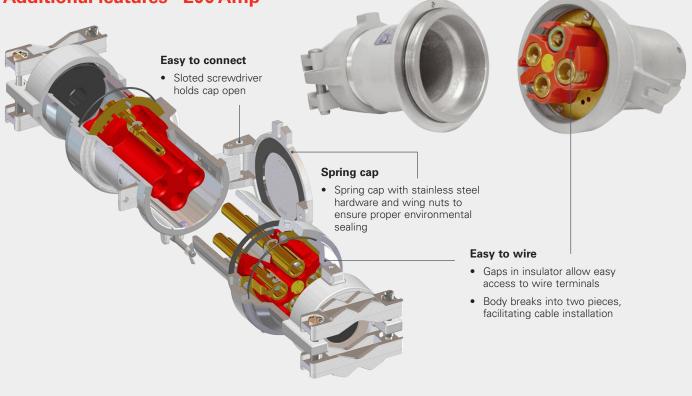
- Copper-free aluminum epoxy powder coat
- · Fiberglass reinforced polyester natural (red)
- Naval brass natural

### Additional features - 200 Amp

#### Options

- Special polarity receptacle interior rotated 22.5° to the right and plug changed to match. 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 and/or frequencies. Prevents insertion of a plug in a receptacle with different electrical rating.
- Reverse service receptacle assembled with plug interior and plug assembled with receptacle interior. Used in applications where plug is energized to feed normally de-energized receptacle. Interiors are field interchangeable using only a screwdriver. (\* excludes 150 and 200A)







# **Ordering information**

Part number example and description

#### CCP3034BC-RS

Eaton's Crouse-Hinds PowerMate™ plug, 30A, 3 wire, 4 pole, 0.390-1.375" cable range, reverse service

	CCP	30		3	4		BC	)	-	_		RS
	•											
Product	t type		Wire	•	Pole		_				Optio	ns
ССР	Plug		2*	2 wire	2	2 pole					-RS	Reverse
CDR	Receptacle		3	3 wire	3	3 pole						service
CRC	Connector		4	4 wire	4	4 pole					-P4	Special polarity
CDRE*	Receptacle with CEE back box		* Avai	lable with 30A,								polarity
CDJA**	Receptacle with CJA back box		60A a	nd 100A								
* Available receptacle	e with 30A and 60A e		produ	Ct								
**Availab 200A rece	le with 60A, 100A, 150A and eptacle								Hub s (recep	ize otacle w	ith back	box only)*
									50	1⁄2"		
									75	3⁄4"		
Ampera	age						•		100	1"		

	- <b>J</b> -
30	30 Amp
60	60 Amp
10	100 Amp
150	150 Amp
200	200 Amp

Cable (plug	Cable range (plug & connector only)*			
BC	0.390 to 1.375"			
CD	0.875 to 1.906"			
DE	1.250 to 2.190"			
Е	1.875 to 2.500"			
F	2.500 to 3.000"			
G	3.000 to 3.500"			

\* Cable range only applies to specific plug part numbers

\* Hub size only applies to specific receptacle part numbers



#### Amn rating Voltage

Ampiruting	Voltage
30, 60, 100, 150, 200	600 VAC, 50 to 400Hz 250 VDC*

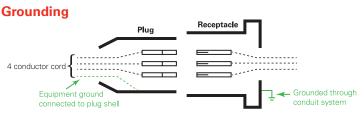
\* This guide is for reference only. Consult your local electrical codes before installation.

#### Maximum horsepower for plug and receptacle combinations by input voltage

Typical horsepower ratings based on NEC Article 430 tables. HP ratings are based on the largest conductor size for each plug and receptacle combination.

\*\* Eaton's Crouse-Hinds recommends circuit breaking use be limited to emergency conditions only and that a horsepower rated switch or Crouse-Hinds interlocked receptacle be used for making and breaking under load.

A	Motor horsepower**				
Amp rating	240V 480V		600V		
30	15	30	40		
60	20	40	50		
100	30	60	75		
150	40	75	100		
200	60	125	150		



125

150 200

250

300

350

400

500

1-1/4' 1-1/2"

2"

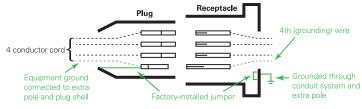
2-1/2'

3-1/2" 4"

3"

5"

Style 1 units complete the grounding circuit through the metallic plug shell, receptacle housing or connector shell



Style 2 units with metal housing have a separate designated ground contact that is bonded to the metallic housing. The metallic housing of the plug, receptacle or connector forms a parallel ground circuit through the receptacle or connector detent spring.

EATON'S CROUSE-HINDS PowerMate pin and sleeve power connectors

#### Wire sizes

The wire size table lists the diameter of the wire recess in PowerMate plug and receptacle contacts so that maximum size of bare conductor can be determined. Range of wire sizes shown in table are intended only as a guide. Depending on type of wire used (building wire, flexible or extra flexible cable) and its construction (number and size of strands), bare copper diameters vary widely.

#### Diameter: wire recess in plug & receptacle contacts

Amperage rating	Contact type	Diameter of recess	Wire size* extra flex
30 (2, 3 & 4 pole)	Pressure	0.281″	#10 to #8
60 (2, 3 & 4 pole)	Pressure	0.312"	#8 to #4
100 (2, 3 & 4 pole)	Pressure	0.390"	#4 to #2
150 (4 pole)	Pressure	0.390"	#2 to 1/0
200 (3 & 4 pole)	Pressure	0.687"	2/0 to 250 MCM

\* Do not use wire size smaller than minimum size recommended

#### 30 Amp: Receptacles, plugs, connectors

		E	Plug		Cord connec	tor
Descript configu	tion & ration	Receptacle	Cable range	Part number	Cable range	Part number
2 wire 2 pole style 1	() () () () () () () () () () () () () (	CDR3022	0.390-1.375"	CCP3022BC	0.390-1.375″	CRC3022BC
2 wire 3 pole style 2	Ø Ø Ø GR	CDR3023	0.390-1.375"	CCP3023BC	0.390-1.375″	CRC3023BC
3 wire 3 pole style 1		CDR3033	0.390-1.375″	CCP3033BC	0.390-1.375″	CRC3033BC
3 wire 4 pole style 2	Ø Ø Ø Ø GR	CDR3034	0.390-1.375″	CCP3034BC	0.390-1.375″	CRC3034BC
4 wire 4 pole style 1		CDR3044	0.390-1.375"	CCP3044BC	0.390-1.375″	CRC3044BC

Back	Back boxes						
Hub size	CEE	CERH	CERC				
1⁄2"	CEE13	CERH13	CERC13				
1-1⁄4"	CEE23	CERH23	CERC23				
1-1⁄2"	CEE33	CERH33	CERC33				

- Standard Corro-Free™ epoxy powder coat finish for increased corrosion resistance
- For optional reversed interior, use suffix **-RS**
- For optional rotated interior, use suffix **-P4**
- Maximum conductor size (wire well) 0.281"

#### 60 Amp: Receptacles, plugs, connectors

		SI	Plug		Cord connector	
Description configurati	n & ion	Receptacle	Cable range	Part number	Cable range	Part number
2 wire 2 pole style 1	Ø Ø GR	CDR6022	0.440-1.375"	CCP6022BC	0.440-1.375″	CRC6022BC
2 wire 3 pole style 2	Ø Ø GR	CDR6023	0.440-1.375"	CCP6023BC	0.440-1.375"	CRC6023BC
3 wire 3 pole ( style 1	Ø Ø GR	CDR6033	0.440-1.375"	CCP6033BC	0.440-1.375″	CRC6033BC
3 wire, 4 pole ( style 2	0 0 0 0 GR	CDR6034	0.440-1.375"	CCP6034BC	0.440-1.375″	CRC6034BC
4 wire 4 pole ( style 1	0 0 0 0 0 0	CDR6044	0.440-1.375"	CCP6044BC	0.440-1.375"	CRC6044BC

Back	boxes	9a		
Hub size	CEE	CERH	CJA	CERC
1⁄2"	CEE36	CERH36	CJA310	CERC36
1-1⁄4"	CEE46	CERH46	CJA410	CERC46
1-1⁄2"	CEE56	CERH56	CJA510	CERC56
2"	-	-	CJA610	-

• Standard Corro-Free<sup>™</sup> epoxy powder coat finish for increased corrosion resistance

- For optional reversed interior, use suffix -RS
- For optional rotated interior, use suffix -P4
- Maximum conductor size (wire well) 0.312"

#### 100 Amp: Receptacles, plugs, connectors

		SC	Plug		Cord connect	tor
Description configuration	& on	Receptacle	Cable range	Part number	Cable range	Part number
2 wire 2 pole style 1	Ø Ø GR	CDR1022	0.875-1.906"	CCP1022CD	0.875-1.906"	CRC1022CD
2 wire 3 pole style 2	Ø Ø Ø GR	CDR1023	0.875-1.906"	CCP1023CD	0.875-1.906"	CRC1023CD
3 wire 3 pole style 1	Ø Ø GR	CDR1033	0.875-1.906"	CCP1033CD	0.875-1.906"	CRC1033CD
3 wire 4 pole style 2	Ø ØF	CDR1034	0.875-1.906"	CCP1034CD	0.875-1.906"	CRC1034CD
4 wire 4 pole style 1	000	CDR1044	0.875-1.906"	CCP1044CD	0.875-1.906"	CRC1044CD

#### 150 Amp: Receptacles, plugs, connectors

		SO	Plug		Cord connect	tor
Descript configur	ion & ation	Receptacle	Cable range	Part number	Cable range	Part number
3 wire		CDR15034	0.875-1.906"	CCP15034CD	0.875-1.906"	CRC15034CD
4 pole style 2	Co Cr	CDR 15034	1.250-2.190"	CCP15034DE	1.250-2.190"	CRC15034DE
4 wire	00	CDR15044	0.875-1.906"	CCP15044CD	0.875-1.906"	CRC15044CD
4 pole style 1	GR	GDN 13044	1.250-2.190"	CCP15044DE	1.250-2.190"	CRC15044DE

#### 200 Amp: Receptacles, plugs, connectors

5	Terr		al Cata	
Co de	Plug		Cord connector	
Receptacle	Cable range	Part number	Cable range	Part number
CDB30033	0.875-1.906"	CCP20023CD	0.875-1.906"	CRC20023CD
CDR20023	1.875-2.500"	CCP20023E	1.875-2.500"	CRC20023E
0000000	0.875-1.906"	CCP20033CD	0.875-1.906"	CRC20033CD
CDN20033	1.875-2.500"	CCP20033E	1.875-2.500"	CRC20033E
CDP20024	0.875-1.906"	CCP20034CD	0.875-1.906"	CRC20034CD
CDR20034	1.875-2.500"	CCP20043E	1.875-2.500"	CRC20034E
00000044	0.875-1.906"	CCP20044CD	0.875-1.906"	CRC20044CD
GDN20044	1.875-2.500"	CCP20044E	1.875-2.500"	CRC20044E
	Receptacle   CDR20023   CDR20033   CDR20034   CDR20034	Receptacle   Cable range     CDR20023   0.875-1.906"     1.875-2.500"   0.875-1.906"     CDR20033   0.875-1.906"     CDR20034   0.875-1.906"     CDR20034   0.875-1.906"     CDR20034   0.875-1.906"     CDR20034   0.875-1.906"	Receptacle   Cable range   Part number     CDR20023   0.875-1.906"   CCP20023CD     1.875-2.500"   CCP20023E     CDR20033   0.875-1.906"   CCP20033CD     CDR20033   0.875-1.906"   CCP20033CD     1.875-2.500"   CCP20033E     0.875-1.906"   CCP20034CD     1.875-2.500"   CCP20034CD     1.875-2.500"   CCP20043E     0.875-1.906"   CCP20044CD	Receptacle   Cable range   Part number   Cable range     CDR20023   0.875-1.906"   CCP20023CD   0.875-1.906"     1.875-2.500"   CCP20023E   1.875-2.500"     CDR20033   0.875-1.906"   CCP20033CD   0.875-1.906"     CDR20033   0.875-1.906"   CCP20033CD   0.875-1.906"     CDR20034   0.875-1.906"   CCP20033CD   0.875-1.906"     CDR20034   0.875-1.906"   CCP20034CD   0.875-1.906"     0.875-1.906"   CCP20043E   1.875-2.500"     0.875-1.906"   CCP20044CD   0.875-1.906"

#### Back boxes:100 & 150 Amp

Hub size	CJA	CJA adapter only
1"	CJA310	
1-1⁄4"	CJA410	- - CJA100
1-1⁄2"	CJA510	- CJA100
2"	CJA610	-

- Standard Corro-Free™ epoxy powder coat finish for increased corrosion resistance
- For optional reversed interior, use suffix **-RS**
- For optional rotated interior, use suffix -P4
- Maximum conductor size (wire well) 0.390"

#### **Back boxes**

Hu siz		CJAC (through- feed)	CJA adapter only
1-½	2" CJA520	-	
2"	CJA620	-	CJA200
2-1/	2" CJA720	CJAC720	

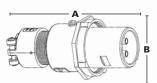
- Standard Corro-Free™ epoxy powder coat finish for increased corrosion resistance
- For optional reversed interior, use suffix **-RS**
- For optional rotated interior, use suffix -P4
- Maximum conductor size (wire well) 0.281"

#### **Dimensions**

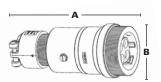
Receptacle



Plug



Connector



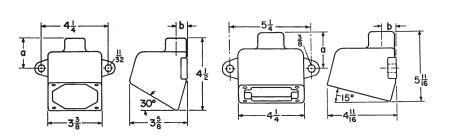
Receptacle	А	В
30A	2.8750	3.3750
60A, 3 pole	4.2500	4.5000
60A, 4 pole	4.2500	4.5000
100A, 3 pole	5.2500	4.2500
100A, 4 pole	5.2500	4.2500
150A CD	5.2500	4.2500
150A DE	5.2500	4.2500
200A	7.8750	7.1875

		-
Plug	Α	В
30A	6.5000	2.3125
60A, 3 pole	8.1700	3.6250
60A, 4 pole	8.1700	3.7500
100A, 3 pole	10.8000	3.7500
100A, 4 pole	10.8000	4.1250
150A CD	10.8000	4.1250
150A DE	10.8000	4.1250
200A	13.1250	7.5000

Connector	А	В
30A	6.6000	2.5625
60A, 3 pole	08.300	2.3125
60A, 4 pole	8.3000	2.3125
100A, 3 pole	11.5000	3.1875
100A, 4 pole	11.5000	3.4375
150A CD	11.5000	3.4375
150A DE	11.5000	3.4375
200A	14.0000	8.2000

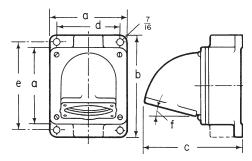
#### Back boxes: 30 & 60A only

Part number	Rating	Hub Size	Α	В
CEE13	30A	1⁄2"	1.8440	0.6875
CEE23	30A	3⁄4"	1.8440	0.8125
CEE33	30A	1"	1.9690	0.9375
CEE36	60A	1"	2.5625	0.9375
CEE46	60A	1-1⁄4"	2.6250	1.1875
CEE56	60A	1-1⁄2"	2.6875	1.3125



#### Back boxes with 60, 100, 150 & 200A angle adapters

Rating	Hub Size	Α	В	с	D	E	F
60, 100, 150A	1"	5.8750	8.0000	7.4375	4.8750	7.0000	15°
60, 100, 150A	1-1⁄4"	5.8750	8.0000	7.4375	4.8750	7.0000	15°
60, 100, 150A	1-1⁄2"	5.8750	8.0000	7.4375	4.8750	7.0000	15°
60, 100, 150A	2"	5.8750	8.0000	8.0000	4.8750	7.0000	15°
200A	1-1⁄2"	8.0000	10.7500	9.8750	6.7500	9.5000	45°
200A	2"	8.0000	10.7500	9.8750	6.7500	9.5000	45°
200A	2-1⁄2"	8.0000	10.7500	9.8750	6.7500	9.5000	45°
200A	2-1⁄2"	8.0000	10.7500	9.8750	6.7500	9.5000	45°
	60, 100, 150A 60, 100, 150A 60, 100, 150A 60, 100, 150A 200A 200A 200A	Rating   Size     60, 100, 150A   1"     60, 100, 150A   1-¼"     60, 100, 150A   1-½"     60, 100, 150A   2"     200A   1-½"     200A   2"     200A   2-½"	Rating   Size   A     60, 100, 150A   1"   5.8750     60, 100, 150A   1-¼"   5.8750     60, 100, 150A   1-½"   5.8750     60, 100, 150A   2"   5.8750     60, 100, 150A   1-½"   5.8750     200A   1-½"   8.0000     200A   2"   8.0000     200A   2-½"   8.0000	Rating   Size   A   B     60, 100, 150A   1"   5.8750   8.0000     60, 100, 150A   1-¼"   5.8750   8.0000     60, 100, 150A   1-½"   5.8750   8.0000     60, 100, 150A   1-½"   5.8750   8.0000     60, 100, 150A   2"   5.8750   8.0000     200A   1-½"   8.0000   10.7500     200A   2"   8.0000   10.7500	Rating   Size   A   B   C     60, 100, 150A   1"   5.8750   8.0000   7.4375     60, 100, 150A   1-¼"   5.8750   8.0000   7.4375     60, 100, 150A   1-¼"   5.8750   8.0000   7.4375     60, 100, 150A   1-½"   5.8750   8.0000   7.4375     60, 100, 150A   2"   5.8750   8.0000   9.8750     200A   1-½"   8.0000   10.7500   9.8750     200A   2"   8.0000   10.7500   9.8750     200A   2-½"   8.0000   10.7500   9.8750	Rating   Size   A   B   C   D     60, 100, 150A   1"   5.8750   8.0000   7.4375   4.8750     60, 100, 150A   1-¼"   5.8750   8.0000   7.4375   4.8750     60, 100, 150A   1-¼"   5.8750   8.0000   7.4375   4.8750     60, 100, 150A   1-½"   5.8750   8.0000   7.4375   4.8750     60, 100, 150A   2"   5.8750   8.0000   7.4375   4.8750     60, 100, 150A   2"   8.000   10.7500   9.8750   6.7500     200A   1-½"   8.0000   10.7500   9.8750   6.7500     200A   2-½"   8.0000   10.7500   9.8750   6.7500	Rating   Size   A   B   C   D   E     60, 100, 150A   1"   5.8750   8.0000   7.4375   4.8750   7.0000     60, 100, 150A   1-¼"   5.8750   8.0000   7.4375   4.8750   7.0000     60, 100, 150A   1-¼"   5.8750   8.0000   7.4375   4.8750   7.0000     60, 100, 150A   1-½"   5.8750   8.0000   7.4375   4.8750   7.0000     60, 100, 150A   2"   5.8750   8.0000   7.4375   4.8750   7.0000     60, 100, 150A   2"   5.8750   8.0000   8.0000   4.8750   7.0000     200A   1-½"   8.0000   10.7500   9.8750   6.7500   9.5000     200A   2"   8.0000   10.7500   9.8750   6.7500   9.5000

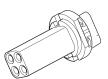


- Back boxes are standard with Corro-Free™ epoxy powder coat finish for increased corrosion resistance
- Through feed back boxes are furnished with one close-up plug in bottom recessed hub
- CJA back boxes are recommended when additional wiring space is required
- The angle adapter on CJA back boxes can be installed at 90° rotations, making it possible to enter hub from several directions

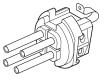
#### **Replacement parts**

Standard replacement parts

Complete in	nsulator assembly	30A	60A	100A	150A	200A
	CDR-CRC	CRI-3022	CRI-6022	CRI-1022	-	-
2W2P	ССР	CPI-3022	CPI-6022	CPI-1022	-	-
014/05	CDR-CRC	CRI-3023	CRI-6023	CRI-1023	_	CRI-20023
2W3P	ССР	CPI-3023	CPI-6023	CPI-1023	_	CPI-20023
	CDR-CRC	CRI-3033	CRI-6033	CRI-1033	-	CRI-20033
3W3P	ССР	CPI-3033	CPI-6033	CPI-1033	-	CPI-20033
204/40	CDR-CRC	CRI-3034	CRI-6034	CRI-1034	CRI-15034	CRI-20034
3W4P	ССР	CPI-3034	CPI-6034	CPI-1034	CPI-15034	CPI-20034
4W4P	CDR-CRC	CRI-3044	CRI-6044	CRI-1044	CRI-15044	CRI-20044
	ССР	CPI-3044	CPI-6044	CPI-1044	CPI-15044	CPI-20044



CRI receptacle & connector interior



CPI plug interior

#### Miscellaneous replacement parts

Amperage	Configuration	CDR spring cover	CDR threaded cover	CCP fastening ring	Bushing kits
30	2, 3 & 4 pole	PTSC30	PTTC30	CLMPR30	PTGB30
60	2.2.9.4 mala	PTSC60A	PTTC60A	CLMPR23P60	DTCDCO
	2, 3 & 4 pole	PTSC60B	PTTC60B	CLMPR4P60	- PTGB60
100	2.2.9.4 mala	PTSC100A	PTTC100A	CLMPR23P100	- PTGBCD
	2, 3 & 4 pole	PTSC100B	PTTC100B	CLMPR4P100	- FIGBUD
150	1 polo	pole PTSC150B PTT(	PTTC150B	CLMPR4P150	PTGBCD (CD size)
	4 роге			ULIVIEN4E 100	PTGBDE (DE size)





Spring cover

Threaded cover



Amperage	Configuration	CDR spring cover	Brass retaining ring	Plug contact	Plug ground contact	Receptacle contact	Receptacle ground contact	Bushing kit
200A	3 pole		PTBR2003	— PTPC200	PTPC200G	PTRC200	PTRC200G	PTGB200CD (CD size)
	4 pole	- PTLC200	PTBR2004					PTGB200E (E size)



## **Crouse-Hinds drilling solutions**

#### Single pole power



#### Roughneck<sup>™</sup> Single Pole Series



Secure, single pole power, rated to 1135A for use in hazardous and normal locations. Ideal for delivering power to the top drive. **Rig Location** 1, 2, 4, 5, 6, 9, 10

#### Roughneck<sup>™</sup> Quick Connect



Quick connect, high amperage, single conductor connectors built to take heavy abuse while providing a simple, secure and safe connection. **Rig Location** 2, 4, 5, 6, 9, 10

#### Cam-Lok<sup>™</sup> Single Pole Series



Quickly connect and disconnect power systems safely. Used for motors, generators, indoor and outdoor lighting distribution panels and numerous other power applications.

**Rig Location** 1, 2, 4, 5, 6, 9, 10

#### Low to medium amp power



#### PowerMate<sup>™</sup> Series



Supplies power to portable devices such as motor generator sets, compressors, heating and cooling, welders and lighting from 30 to 200A. **Rig Location** 2, 4, 5

#### PowerGard<sup>™</sup> Series



Supplies power to lighting systems, lighting panels and portable hand tools on landbased rigs. **Rig Location** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10

#### IEC 309 GHG 51 Series



#### Supplies power to portable devices with requirements of 16 to 125A and features an integrated AC3 rated disconnect switch. Reinforced polyester construction offers reliability from -20° to +55°C. **Rig Location** 7.8.9

#### **Multi-pin control**



#### Roughneck<sup>™</sup> Multi-pin Series



Heavy duty control and instrumentation multi-pin connectors for hazardous and harsh industrial use. **Rig Location** 1, 2, 4, 5, 6, 9, 10





hazardous areas

#### For more information:

If further assistance is required, please contact an authorized Eaton Distributor, Sales Office, or Customer Service Department.

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