**8**P

# Special Purpose Plugs and Receptacles

Application

### **Applications:**

Special purpose plugs and receptacles listed in this section are for use in nonhazardous areas, where environmental or application considerations require nonstandard plugs and receptacles. Included in this section are ARK-trol® plugs and receptacles (RPC and RPE).

# ARK-trol Plugs and Receptacles:

- Are used with a wide range of equipment requiring a variety of contact configurations under conditions of hard usage and exposure to rigorous environments.
- Two basic non-hazardous types: RPC – circuit breaking power connectors; RPE – control circuit, power and welding connectors.
- One hazardous type: RPX "Time Slot" delayed action connectors.

RPC – A variety of configurations (with a maximum of five-poles) are available for one and three-phase circuits. Electrical range is 30, 60, 100, 200 amperes at a maximum of 600 VAC.

RPE – A wider range of configurations are available, including options with up to 39 pins.

Both types are available (either as standard or as option) with solder well terminals for high reliability, or crimp or pressure terminals for ease of installation. Listings on the following pages show complete assemblies with mating plugs and components.

RPX – Available in similar configurations as the RPC line, but can be used in areas which are hazardous.

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### RPC Circuit Breaking Power Connectors RPE Control Circuit and Power Connectors Non-hazardous Areas

#### **Applications:**

ARK-trol RPC circuit breaking power connectors and RPE control circuit power connectors are used:

- With a wide variety of portable electrical equipment
- For connection of devices ranging from simple lighting units, power tools, and similar portables requiring only a power supply circuit, to sophisticated control and instrumentation assemblies requiring disconnect
- Under conditions of hard usage and where exposed to dust, dirt, water, corrosion and chemical attack, providing high reliability and trouble-free service
- Indoors or outdoors in non-hazardous areas of petroleum refineries, chemical and petrochemical plants, manufacturing plants, military installations and similar locations
- On machine tools and similar equipment

### **Features:**

 All ARK-trol connectors have the same properties, characteristics and environmental capabilities outlined under "Compliances"

### **Construction:**

- All ARK-trol plug, receptacle and cord connector shell parts are of high-strength impact extruded aluminum, hard coated with a high density anodize finish. The resultant assemblies are lightweight, extremely strong, free from surface defects and flaws, and with superior resistance to abrasion, corrosion and chemical attack.
- "Tri-Disc" insert assemblies consist of two rigid insulators with a silicone rubber wafer between to provide a cushioning action against mechanical damage and to effect a positive seal against penetration by water, moisture, dust, gas and other undesirable matter. Assembly of the inserts compresses the silicone wafer to seal against the inner wall of the plug or receptacle shell, and around each individual contact.
- ARK-trol insulating material is of high dielectric and mechanical strength with low moisture absorption and excellent resistance to arc tracking. Socket contacts are each enclosed in a separate chamber in the silo insulator. Arcs formed while making or breaking a circuit are quickly snuffed out in the chambers.
- Contacts are removable and, for ease of installation, are snapped into the insert assemblies after wire termination. Termination methods employed are solder, crimp and pressure. Solder well contacts are standard and are furnished unless otherwise specified. Crimp

contacts are available in all sizes and configurations. Pressure contacts, due to increased terminal area, are available only in certain assemblies as shown in the listings.

- For cable strain relief and watertight seal, plugs and cord connector receptacles are provided with gland nut and tapered neoprene bushing.
- Contacts are removable and, for ease of installation, are snapped into the insert assemblies after wire termination.
   Termination methods employed are solder, crimp and pressure. Solder well contacts are standard and are furnished unless otherwise specified. Crimp contacts are available in all sizes and configurations. Pressure contacts, due to increased terminal area, are available only in certain assemblies as shown in the listings.
- For cable strain relief and watertight seal, plugs and cord connector receptacles are provided with gland nut and tapered neoprene bushing.

### **Positive Polarization:**

- Polarization of ARK-trol connectors is such that plugs and receptacles cannot be mated incorrectly.
- Insert assemblies must be correctly aligned and will fit plug and receptacle shells in one position only, because of a raised key on the inner wall of the shells.
- Seven keys on the inner wall of the receptacle and seven mating keyways on the outer diameter of the plug shell are spaced so that the plug and receptacle can be mated in one position only. One key and one keyway are larger than the other six as a guide to rapid connection, easily performed under adverse field conditions even in total darkness.

### Interchangeability:

 Shell components and insert assemblies in each diameter are interchangeable. Both male and female basic shells will accept either pin or socket inserts. This feature permits the use of both plug and receptacle in either an energized or deenergized condition.

### **Grounding:**

- Grounded connectors have pin and socket contacts with integral grounding straps which press against the inner wall of plug, receptacle and cord connector shells, effectively bonding the shells to the grounding contacts.
- Grounding socket contacts are longer than current carrying contacts to make first and break last, assuring a positive ground before circuits are energized and after circuits are de-energized.

#### **Standard Materials:**

- Back boxes and adapters copper-free aluminum
- Plug, receptacle and cord connector shells – impact extruded aluminum
- Insulation diallyl phthalate (DAP)
- Insulation fiberglass-reinforced polyester material
- Sealing wafer silicone rubber
- Contacts hard drawn copper

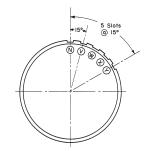
### Standard Finishes:

- Copper-free aluminum natural
- Impact extruded aluminum hard coat anodized
- Diallyl phthalate natural (blue)
   Eiberglage minformed pelvector
- Fiberglass-reinforced polyester material – natural (red)
- Silicone natural (grey)
- Copper silver plated

#### **Options:**

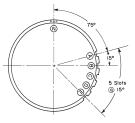
 Alternate polarities – ungrounded connectors. Standard polarity is position "N" shown below. Alternate positions "V", "W", "X" or "Y" can be furnished. To order, substitute for the letter "N" in the listed Cat. No., the letter for the desired polarization.

Example: RPC217-127-SO1N-ARE23 with polarity "X" becomes RCP217-127-SO1X-ARE23.



 Alternate polarities – grounded connectors. Standard polarity is position "A" shown below. Alternate positions "B", "C", "D" or "E" can be furnished. To order, substitute for the letter "A" in the listed Cat. No., the letter for the desired polarization.

Example: RPC217-127-SO2A-ARE23 with polarity "D" becomes RPC217-127-SO2D-ARE23.



### **RPC Circuit Breaking Power Connectors RPE Control Circuit and Power Connectors** Non-hazardous Areas

#### **Options** (continued):

• Crimp type contacts - available on all assemblies with solder well contacts. To order, add letter "T" to Cat. No., immediately following polarity letter.

Examples: RPC217-127-S01N-ARE23 and RPC217-127-S02A-ARE23 except with crimp contacts would be ordered as RPC217-127-S01NT-ARE23 and RPC217-127-S02AT-ARE23 respectively.

- · Alternate cable strain relief methods for plugs and connectors:
  - Stainless steel wire mesh cord grip. To order, add letter "K" to first section of Cat. No.

Example: RPC117-150-P01N with wire mesh grip would be ordered as RPCK117-150-P01N.



Adapter for use with liquid tight/rigid conduit. To order, add letters "LT" to first section of catalog number. Example: RPC117-150-P01N with liquid tight/conduit adapter would be ordered as RPCLT117-150-P01N.

#### **Electrical Rating Ranges:**

- Voltage 250, 480 and 600VAC
- Frequency 50\* to 400 hertz
- · See listings for specific ratings

#### **Ampere Ratings:**

- Ratings given in the table at right are applicable to RPC circuit breaking power connectors and RPE control connectors, as indicated.
- RPC connectors are capable of making or breaking circuits at the full rated load indicated in the table on the listing pages.
- Contact assemblies of RPE connectors have the current carrying capabilities shown in the table, as defined by applicable military specifications (MS) and NEC requirements. for circuits not made or broken under load. It should be noted that these non-interrupting ampere ratings exceed the NEC rating of the corresponding wire size.

Contact Size	RPC Circuit Breaking Connectors NEC	RPE Connectors Non-Interrupting Ampere Rating			
AWG	Rating	MS(AN)	NEC		
#16		22	16		
#12	20A	41	30		
#10	30A	57	40		
#4	60A	135	90		
1/0	100A	250	160		
4/0	200A	335	225		

### **Certifications and Compliances:**

#### Properties Characteristics

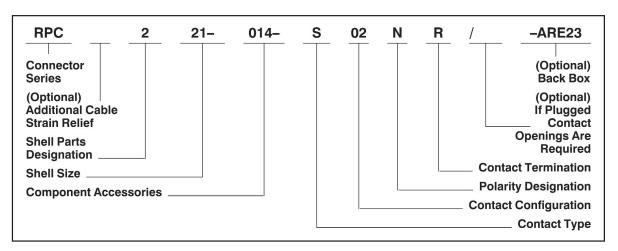
Industrial use	excludes dust, lint, fibers and flying, oil seepage and coolant seepage – meets J.I.C. Standard
Driptight	excludes falling moisture or dirt - materials unaffected by condensation
Weather resistant (weatherproof)	performs normally in outdoor areas
Watertight	excludes water by hose spray or stream
Dust-tight	excludes dust, but performs normally if dust is accidentally enclosed during disconnect
Chemical resistance	high resistant to alkalis, strong caustics, acids, petroleum base and organic solvents
Pressure	300 psi external – 200 psi internal

#### **Compliance with Military Specifications**

Environment	Performance Data
Corrosion resistance	salt spray 300 days. MIL-STD-810E
Temperature	-80°F to 275°F, meeting requirements of MIL-STD-810E
Air leakage	exceeds Class E specification MIL-STD-810E
Dust resistance	exceeds requirements of MIL-STD-810E
Shock resistance	50G exceeds MIL-STD-810E
Vibration	exceeds 20G, method II, MIL-STD-810E
Humidity & moisture	exceeds Class E specification MIL-STD-810E
ANSI/UL Standard	498

\*For use on system less than 60 hertz the receptacles, plugs and connectors are for disconnect use only.

### **Catalog Numbering System**



#### **Connector Series:**

RPC – circuit breaking RPE – for disconnect use only RPX – hazardous (gasoline or equivalent hazards)

# Additional Cable Strain Relief (Optional):

K = Wire mesh cord grip

LT = Liquidtight/conduit connection

### **Shell Parts Designation:**

- 0 = No shell part required
- 1= Plug shell
- 2 = Receptacle
- 3 = Cord connector
- 4 =Connector handle body only
- 5 = Plug shell (long)
- 6 = Receptacle (long) 7 = Cord connector (long)

Shell Size:

Inside Diameter measured in X/16" (017, 021, 033, 041, i.e., 017 shell size =  $\frac{17}{16}$ ")

#### **Component Accessories:**

This code indicates the combination of shell parts to fit your application; e.g., 014 = square flanged receptacle with insert retaining nut and dust cap; 150 = plug handle body, bushing, and clamping nut for cable with a diameter of .250 to .625.

### **Contact Type:**

P = Pin (male) S = Socket (female)

### **Contact Configuration:**

This assigned code indicates the actual configuration of the contacts (pin and socket) in the insert assembly for a particular shell size. This is based upon electrical ratings (amperage and voltage) and the number of contacts required. It does not indicate the number of contacts in the configuration.

### **Polarity Designation:**

N = Standard position – ungrounded V, W, X or Y = Alternate positions – (ungrounded) A = Standard position – grounded B, C, D or E = Alternate positions – (grounded)

#### **Contact Termination:**

Blank = Solder well (standard unless noted) R = Pressure (See complete ordering information that follows for availability) T = Crimp (available in all configurations)

### Plugged Contact Openings (Optional):

This option allows greater flexibility, allowing for unique wiring requirements. The number following the slash indicates the total number of contacts that will be supplied (including ground contact, if applicable); all other openings in the insert assembly will be plugged.

### **Back Boxes (Optional):**

See page 1445 for back box information.

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# **RPC Circuit Breaking Power Connectors** With Solder Well Terminals†

	Circuit	Volts	Contact	Shell	Hub	Square Flanged Receptacle, Dust Cap and Back Box Cat. # (For Surface	Motor Plug with
00 4	Description	(VAC)	Size	Size	Size (In.)	Mounting)‡*	Dust Cap Cat. #
20 Amps Grounded	4w, 5p	480	#12	017	<sup>3</sup> / <sub>4</sub> 1	RPC217 014 S09A ARE23 RPC217 014 S09A ARE33	RPC117 157 P09A
Ungrounded	5w, 5p	480	#12	017	<sup>3</sup> / <sub>4</sub> 1	RPC217 014 S08N ARE23 RPC217 014 S08N ARE33	RPC117 157 P08N
<b>30 Amps</b> Grounded	2w, 3p	480	#10	017	<sup>3</sup> / <sub>4</sub> 1	RPC217 014 S02A ARE23 RPC217 014 S02A ARE33	RPC117 157 P02A
	3w, 4p	480	#10	017	<sup>3</sup> / <sub>4</sub> 1	RPC217 014 S04A ARE23 RPC217 014 S04A ARE33	RPC117 157 P04A
	4w, 5p	480	#10	021	<sup>3</sup> /4 <b>1</b>	RPC221 014 S17A ARE23 RPC221 014 S17A ARE33	RPC121 157 P17A
Ungrounded	3w, 3p	480	#10	017	<sup>3</sup> /4 <b>1</b>	RPC217 014 S01N ARE23 RPC217 014 S01N ARE33	RPC117 157 P01N
	4w, 4p	480	#10	017	<sup>3</sup> /4 1	RPC217 014 S03N ARE23 RPC217 014 S03N ARE33	RPC117 157 P03N
	5w, 5p	480	#10	021	<sup>3</sup> /4 1	RPC221 014 S16N ARE23 RPC221 014 S16N ARE33	RPC121 157 P16N
60 Amps Grounded	3w, 4p	600	#4	033	1 1/4 1 1/2	RPC233 014 S08A ARE46 RPC233 014 S08A ARE56	RPC133 157 P08A
	4w, 5p	480	#4	033	1 ¼ 1 ½	RPC233 014 S09A ARE46 RPC233 014 S09A ARE56	RPC133 157 P09A
Ungrounded	4w, 4p	600	#4	033	1 1/4 1 1/2	RPC233 014 S05N ARE46 RPC233 014 S05N ARE56	RPC133 157 P05N
	5w, 5p	480	#4	033	1 ¼ 1 ½	RPC233 014 S06N ARE46 RPC233 014 S06N ARE56	RPC133 157 P06N

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### **RPC Circuit Breaking Power Connectors** With Solder Well Terminals<sup>+</sup>



Cable Diameter Range         Connector Cat. #§         Plug Cat. #§           250 to. 625         RPC317 160 S09A RPC317 161 S09A         RPC117 150 P09A RPC117 151 P09A         The control of control contel control control control control control control		Cord		
Listicity         Listicity <thlisticity< th=""> <thlisticity< th=""> <thl< th=""><th>Cable</th><th>Connector</th><th>Plug</th><th></th></thl<></thlisticity<></thlisticity<>	Cable	Connector	Plug	
.250 to .625       RPC317 160 S09A       RPC117 150 P09A         .625 to .875       RPC317 161 S09A       RPC117 151 P09A         .250 to .625       RPC317 160 S08N       RPC117 150 P08N         .250 to .625       RPC317 160 S08N       RPC117 150 P08N         .625 to .875       RPC317 160 S02A       RPC117 150 P02A         .625 to .875       RPC317 160 S02A       RPC117 150 P02A         .625 to .875       RPC317 160 S04A       RPC117 150 P02A         .625 to .875       RPC317 160 S04A       RPC117 150 P02A         .625 to .875       RPC317 160 S04A       RPC117 150 P04A         .625 to .875       RPC317 160 S04A       RPC117 150 P04A         .625 to .875       RPC317 160 S04A       RPC117 150 P04A         .625 to .875       RPC317 160 S01N       RPC117 150 P04A         .625 to .625       RPC317 160 S01N       RPC117 150 P04A         .625 to .625       RPC317 160 S03N       RPC117 150 P04N         .625 to .625       RPC317 160 S03N       RPC117 150 P04N         .625 to .625       RPC317 160 S03N       RPC117 150 P03N         .625 to .625       RPC317 160 S03N       RPC117 150 P03N         .625 to .625       RPC331 760 S03A       RPC133 153 P08A         .625 to .625       RPC333 360 S08A	Diameter Range	Cat. #§	Cat. #§	
250 to .625       RPC317 160 S08N       RPC117 150 P08N         2250 to .625       RPC317 160 S08N       RPC117 151 P08N         2250 to .625       RPC317 161 S02A       RPC117 151 P08N         2.50 to .625       RPC317 161 S02A       RPC117 151 P02A         .625 to .875       RPC317 161 S02A       RPC117 151 P02A         .625 to .875       RPC317 161 S04A       RPC117 151 P02A         .625 to .875       RPC317 161 S04A       RPC117 151 P04A         .625 to .875       RPC317 161 S04A       RPC117 151 P04A         .625 to .875       RPC317 161 S04A       RPC117 151 P04A         .625 to .1000       RPC321 161 S17A       RPC121 151 P17A         .625 to .625       RPC317 160 S01N       RPC117 150 P04N         .625 to .625       RPC317 160 S01N       RPC117 150 P04N         .625 to .625       RPC317 160 S03N       RPC117 150 P04N         .625 to .625       RPC317 160 S03N       RPC117 150 P03N         .625 to .625       RPC317 160 S03N       RPC117 150 P03N         .625 to .625       RPC317 160 S03N       RPC117 150 P03N         .625 to .625       RPC317 160 S03N       RPC117 150 P03N         .625 to .625       RPC331 163 S08A       RPC133 153 P08A         .1375 to 1.625       RPC333 363 S08A	.250 to .625	RPC317 160 S09A	RPC117 150 P09A	
250 to .625       RPC317 160 S08N       RPC117 150 P08N         .625 to .875       RPC317 160 S02A       RPC117 151 P02A         .250 to .625       RPC317 160 S02A       RPC117 151 P02A         .250 to .625       RPC317 161 S02A       RPC117 151 P02A         .250 to .625       RPC317 161 S02A       RPC117 151 P02A         .250 to .625       RPC317 161 S02A       RPC117 151 P02A         .250 to .625       RPC317 161 S04A       RPC117 151 P02A         .625 to .875       RPC317 161 S04A       RPC117 151 P02A         .625 to .875       RPC317 161 S04A       RPC117 150 P04A         .625 to .875       RPC317 161 S04A       RPC117 150 P04A         .625 to .875       RPC317 160 S01N       RPC117 151 P04A         .625 to .875       RPC317 160 S01N       RPC117 150 P01N         .250 to .625       RPC317 161 S01N       RPC117 150 P03N         .625 to .875       RPC317 161 S03N       RPC117 151 P01N         .250 to .625       RPC317 161 S03N       RPC117 151 P01N         .625 to 1.000       RPC321 161 S16N       RPC121 337 P16N         .875 to 1.375       RPC333 163 S06A       RPC133 153 P06A         .1375 to 1.625       RPC333 163 S06A       RPC133 153 P06A         .1375 to 1.625       RPC333 396 S06A	.625 to .875	RPC317 161 S09A	RPC117 151 P09A	
1.200 0.23       RPC317 100 S00N       RPC117 150 P08N         1.250 to .625       RPC317 161 S08N       RPC117 151 P08N         1.250 to .625       RPC317 161 S02A       RPC117 151 P02A         1.250 to .625       RPC317 161 S02A       RPC117 151 P02A         1.250 to .625       RPC317 161 S04A       RPC117 151 P02A         1.250 to .625       RPC317 161 S04A       RPC117 151 P04A         .625 to .875       RPC317 161 S04A       RPC117 151 P04A         .625 to 1.000       RPC321 395 S17A       RPC121 51 P17A         .625 to 1.000       RPC317 160 S01N       RPC117 150 P01N         .625 to .875       RPC317 160 S01N       RPC117 150 P01N         .625 to .875       RPC317 161 S01N       RPC117 150 P03N         .625 to .875       RPC317 161 S03N       RPC117 150 P03N         .625 to .875       RPC317 161 S03N       RPC117 151 P01N         .250 to .625       RPC317 161 S03N       RPC117 150 P03N         .625 to 1.375       RPC317 161 S03N       RPC117 150 P03N         .625 to 1.375       RPC333 163 S08A       RPC133 153 P08A         .1375 to 1.325       RPC333 396 S08A       RPC133 388 P08A         .1375 to 1.625       RPC333 396 S09A       RPC133 388 P09A         .1625 to 1.875       RPC333 396 S0	050 to . 005	BB0017 400 000N	DD0447 450 D00N	
250 to .625       RPC317 160 S02A       RPC117 150 P02A       specifying the backtox. Example: RPC217-01-4509A.         250 to .625       RPC317 161 S02A       RPC117 151 P02A       specifying the backtox. Example: RPC217-16-S09A.         .625 to .875       RPC317 160 S04A       RPC117 150 P04A       rot ord contentors:         .625 to .875       RPC317 161 S07A       RPC117 151 P04A       rot ord contentors:         .625 to .875       RPC317 161 S07A       RPC121 151 P17A       rot ord contentors:         .625 to .875       RPC317 160 S01N       RPC117 150 P01N       statiles stel vier mesh grip - To order, add letter 'K' to first section of catalog number. Example: RPCX171-160-S09A.         .625 to .875       RPC317 160 S01N       RPC117 150 P01N       statiles stel vier mesh grip - To order, add letter 'K' to first section of catalog number. Example: RPCX171-160-S09A.         .625 to .875       RPC317 160 S03N       RPC117 150 P01N         .625 to .875       RPC317 161 S01N       RPC117 150 P03N         .625 to 1.000       RPC321 161 S16N       RPC121 151 P16N         .805 to 1.375       RPC333 163 S08A       RPC133 153 P08A         .375 to 1.625       RPC333 163 S08A       RPC133 153 P08A         .375 to 1.625       RPC333 366 S08A       RPC133 153 P09A         .375 to 1.375       RPC333 366 S08N       RPC133 353 P05N				*For square flanged receptacle with dust cap for panel
12:00 10       0:223       RPC317 160 S02A       RPC117 150 P02A       Special connectors:         12:00 10       0:250 10       0:253       RPC317 161 S02A       RPC117 150 P04A       Special connectors:       Liquidity/MCondut Adapter – To order with adapter – To order with adapter – add letters *LT* to first section of catalog number. Example:         10:00 to 1.187       RPC317 161 S02A       RPC117 151 P04A       RPC117 151 P04A       Additional Cable Strain Relief Options – * Stainless stell wire mesh relief Options – * * Stainless stell wire mesh relief Options – * * Stainless stell wire mesh relief Options – * * * * * * * * * * * * * * * * * *				
250 to .625       RPC317 160 S04A       RPC117 150 P04A         .625 to .875       RPC317 161 S04A       RPC117 151 P04A         .625 to .875       RPC317 161 S04A       RPC117 151 P04A         .625 to 1.000       RPC321 161 S17A       RPC121 151 P17A         .625 to 1.187       RPC317 160 S01N       RPC117 150 P01N         .625 to .875       RPC317 160 S01N       RPC117 150 P01N         .625 to .875       RPC317 160 S03N       RPC117 150 P03N         .625 to .875       RPC317 160 S03N       RPC117 150 P03N         .625 to 1.000       RPC321 161 S16N       RPC117 150 P03N         .625 to 1.000       RPC321 161 S16N       RPC117 151 P03N         .625 to 1.375       RPC331 163 S08A       RPC133 153 P08A         .1.375 to 1.625       RPC333 365 S08A       RPC133 389 P08A         .875 to 1.375       RPC333 163 S09A       RPC133 153 P09A         .1.375 to 1.625       RPC333 365 S05N       RPC133 388 P09A         .1.375 to 1.625       RPC333 365 S05N       RPC133 388 P05N         .1.375 to 1.625       RPC333 365 S05N       RPC133 388 P05N         .1.375 to 1.625       RPC333 365 S05N       RPC133 389 P05N         .1.375 to 1.625       RPC333 365 S05N       RPC133 389 P05N         .1.375 to 1.625 <td< td=""><td></td><td></td><td></td><td>§For plugs and cord connectors:</td></td<>				§For plugs and cord connectors:
.250 to .625       RPC317 160 S04A       RPC117 150 P04A       of catalog number. Example: RPC1317.160-S09A.         .625 to .875       RPC317 161 S04A       RPC117 151 P04A       • Stainless steel wire mesh gip To order, add letter         .625 to 1.000       RPC321 161 S17A       RPC121 151 P17A       • Stainless steel wire mesh gip To order, add letter         .625 to 1.000       RPC317 160 S01N       RPC117 150 P01N       • Stainless steel wire mesh gip To order, add letter         .250 to .625       RPC317 161 S01N       RPC117 150 P01N       • Stainless steel wire mesh gip To order, add letter         .250 to .625       RPC317 161 S01N       RPC117 150 P03N       • Stainless steel wire mesh gip To order, add letter         .250 to .625       RPC317 161 S01N       RPC117 151 P01N       • Stainless steel wire mesh gip To order, add letter         .250 to .625       RPC317 161 S03N       RPC117 150 P03N       • Stainless steel wire mesh gip To order, add letter         .250 to .625       RPC317 161 S03N       RPC117 150 P03N       • Stainless steel wire mesh gip To order, add letter         .250 to .625       RPC317 161 S03N       RPC117 150 P03N       • Stainless steel wire mesh gip To order, add letter         .250 to .625       RPC331 163 S03N       RPC121 181 P16N       • Stainless steel wire mesh gip To order, add letter         .1000 to 1.187       RPC333 163 S0	.625 10 .875	RPC317 101 502A	RFC117 151 F02A	
.b25 to 3.675       RPC317 161 S04A       RPC117 151 P04A       • Stainless steel wire mesh grip – To order, add letter         .625 to 1.000       RPC321 161 S17A       RPC121 151 P17A       • Stainless steel wire mesh grip – To order, add letter         .625 to 1.000       RPC321 395 S17A       RPC121 387 P17A       • Stainless steel wire mesh grip – To order, add letter         .250 to .625       RPC317 160 S01N       RPC117 150 P01N       RPC117 151 P01N         .250 to .625       RPC317 160 S03N       RPC117 150 P03N         .625 to 1.875       RPC317 161 S03N       RPC117 151 P03N         .625 to 1.000       RPC321 161 S16N       RPC121 387 P16N         .875 to 1.375       RPC331 63 S08A       RPC133 153 P08A         1.375 to 1.625       RPC333 163 S09A       RPC133 153 P09A         1.625 to 1.875       RPC333 163 S09A       RPC133 388 P09A         .875 to 1.375       RPC333 365 S05N       RPC133 389 P09A         .875 to 1.625       RPC333 366 S05N       RPC133 389 P09A         .875 to 1.375       RPC333 163 S05N       RPC133 389 P05N         .875 to 1.375       RPC333 366 S05N       RPC133 389 P05N         .875 to 1.375       RPC333 366 S05N       RPC133 389 P05N         .875 to 1.375       RPC333 366 S05N       RPC133 389 P05N         .875 to 1.37	.250 to .625	RPC317 160 S04A	RPC117 150 P04A	of catalog number. Example: RPCLT317-160-S09A.
.625 to 1.000         RPC321 161 S17A RPC321 395 S17A         RPC121 151 P17A RPC121 387 P17A         "K" to first section of catalog number. Example: RPCK317-160-S09A.           .250 to .625         RPC317 160 S01N RPC317 161 S01N         RPC117 150 P01N RPC117 151 P01N         "K" to first section of catalog number. Example: RPCK317-160-S09A.           .250 to .625         RPC317 160 S03N RPC317 161 S03N         RPC117 150 P03N RPC117 151 P03N         "K" to first section of catalog number. Example: RPCK317-160-S09A.           .625 to 1.625         RPC317 161 S03N RPC317 161 S03N         RPC117 150 P03N RPC117 151 P03N         "K" to first section of catalog number. Example: RPCK317-160-S09A.           .625 to 1.000         RPC321 161 S16N RPC321 395 S16N         RPC121 151 P16N RPC133 387 P06A         "RPC333 163 S08A RPC133 388 P08A           .875 to 1.375         RPC333 163 S09A RPC333 397 S08A         RPC133 153 P09A RPC133 388 P09A         "RPC133 388 P09A RPC133 388 P09A           .875 to 1.375         RPC333 163 S09A RPC333 397 S09A         RPC133 153 P09A RPC133 388 P09A         "RPC333 397 S09A           .875 to 1.375         RPC333 163 S05N RPC333 397 S05N         RPC133 153 P09A RPC133 388 P09A         "RPC333 397 S05N           .875 to 1.375         RPC333 163 S06N RPC333 397 S05N         RPC133 153 P05N RPC133 388 P05N         "RPC333 397 S05N           .875 to 1.375         RPC333 163 S06N RPC333 397 S05N         RPC133 153 P06N RPC133 388 P06N         "RPC133 388 P06N	.625 to .875	RPC317 161 S04A	RPC117 151 P04A	
1.000 to 1.187       RPC321 395 S17A       RPC121 387 P17A         .250 to .625       RPC317 160 S01N       RPC117 150 P01N         .625 to .875       RPC317 161 S01N       RPC117 151 P01N         .250 to .625       RPC317 160 S03N       RPC117 150 P03N         .625 to .875       RPC317 161 S03N       RPC117 151 P03N         .625 to .875       RPC321 161 S16N       RPC121 151 P16N         .625 to 1.000       RPC321 161 S16N       RPC121 387 P16N         .875 to 1.375       RPC333 163 S08A       RPC133 153 P08A         1.375 to 1.625       RPC333 396 S08A       RPC133 388 P08A         1.625 to 1.875       RPC333 163 S09A       RPC133 153 P09A         1.375 to 1.375       RPC333 163 S09A       RPC133 153 P09A         1.375 to 1.625       RPC333 397 S09A       RPC133 153 P09A         1.375 to 1.625       RPC333 396 S09A       RPC133 153 P09A         1.375 to 1.625       RPC333 397 S09A       RPC133 153 P09A         1.375 to 1.625       RPC333 163 S05N       RPC133 388 P09A         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P09A         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P09A         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875 <td< td=""><td>005 to 1 000</td><td>DD0001 404 0474</td><td></td><td>"K" to first section of catalog number. Example:</td></td<>	005 to 1 000	DD0001 404 0474		"K" to first section of catalog number. Example:
.250 to .625       RPC317 160 S01N       RPC117 150 P01N         .625 to .875       RPC317 161 S01N       RPC117 151 P01N         .250 to .625       RPC317 160 S03N       RPC117 150 P03N         .625 to .875       RPC317 161 S03N       RPC117 150 P03N         .625 to .875       RPC317 161 S03N       RPC117 151 P03N         .625 to 1.000       RPC321 161 S16N       RPC121 151 P16N         1.000 to 1.187       RPC333 163 S08A       RPC133 153 P08A         1.375 to 1.625       RPC333 163 S08A       RPC133 153 P08A         1.375 to 1.625       RPC333 163 S09A       RPC133 153 P09A         1.375 to 1.625       RPC333 163 S09A       RPC133 153 P09A         1.625 to 1.375       RPC333 396 S05N       RPC133 153 P09A         1.625 to 1.375       RPC333 397 S05N       RPC133 153 P05N         1.625 to 1.375       RPC333 163 S05N       RPC133 153 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 389 P05N         1.625 to 1.375       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875 <t< td=""><td></td><td></td><td></td><td>RPCK317-160-S09A.</td></t<>				RPCK317-160-S09A.
.625 to .875       RPC317 161 S01N       RPC117 151 P01N         .250 to .625       RPC317 160 S03N       RPC117 150 P03N         .625 to .875       RPC317 161 S03N       RPC117 151 P03N         .625 to 1.000       RPC321 161 S16N       RPC121 151 P16N         1.000 to 1.187       RPC333 163 S08A       RPC133 153 P08A         .875 to 1.375       RPC333 396 S08A       RPC133 153 P08A         1.625 to 1.875       RPC333 396 S08A       RPC133 388 P08A         .875 to 1.375       RPC333 396 S09A       RPC133 153 P09A         .875 to 1.375       RPC333 396 S09A       RPC133 388 P09A         .875 to 1.375       RPC333 396 S09A       RPC133 388 P09A         .875 to 1.375       RPC333 396 S09A       RPC133 388 P09A         .875 to 1.375       RPC333 396 S09A       RPC133 388 P09A         .875 to 1.375       RPC333 396 S05N       RPC133 388 P09A         .875 to 1.375       RPC333 396 S05N       RPC133 388 P05N         .875 to 1.375       RPC333 396 S05N       RPC133 388 P05N         .875 to 1.375       RPC333 396 S05N       RPC133 388 P05N         .875 to 1.375       RPC333 397 S05N       RPC133 388 P05N         .875 to 1.375       RPC333 397 S05N       RPC133 388 P05N         .875 to 1.375       RPC333	1.000 to 1.187	RF0321 395 317A	RFC121 367 F17A	
.250 to .625       RPC317 160 S03N       RPC117 150 P03N         .625 to .875       RPC317 161 S03N       RPC117 151 P03N         .625 to 1.000       RPC321 395 S16N       RPC121 151 P16N         1.000 to 1.187       RPC333 163 S08A       RPC133 153 P08A         .875 to 1.375       RPC333 396 S08A       RPC133 388 P08A         1.625 to 1.875       RPC333 397 S08A       RPC133 388 P08A         .875 to 1.375       RPC333 397 S08A       RPC133 388 P08A         .875 to 1.375       RPC333 397 S08A       RPC133 388 P08A         .875 to 1.375       RPC333 163 S09A       RPC133 388 P08A         .875 to 1.375       RPC333 163 S09A       RPC133 388 P09A         .875 to 1.375       RPC333 397 S09A       RPC133 388 P09A         .875 to 1.375       RPC333 397 S09A       RPC133 388 P09A         .875 to 1.375       RPC333 397 S09A       RPC133 388 P09A         .875 to 1.375       RPC333 397 S05N       RPC133 388 P05N         .875 to 1.375       RPC333 397 S05N       RPC133 388 P05N         .875 to 1.375       RPC333 397 S05N       RPC133 388 P05N         .875 to 1.375       RPC333 397 S05N       RPC133 388 P05N         .875 to 1.375       RPC333 396 S06N       RPC133 388 P05N         .875 to 1.375       RPC333	.250 to .625	RPC317 160 S01N	RPC117 150 P01N	
.625 to .875       RPC317 161 S03N       RPC117 151 P03N         .625 to 1.000       RPC321 161 S16N       RPC121 151 P16N         1.000 to 1.187       RPC331 395 S16A       RPC121 387 P16N         .875 to 1.375       RPC333 163 S08A       RPC133 153 P08A         1.625 to 1.875       RPC333 396 S08A       RPC133 388 P08A         1.625 to 1.375       RPC333 163 S09A       RPC133 153 P09A         1.625 to 1.375       RPC333 396 S09A       RPC133 388 P09A         1.625 to 1.875       RPC333 163 S09A       RPC133 388 P09A         1.625 to 1.875       RPC333 163 S09A       RPC133 388 P09A         1.625 to 1.875       RPC333 396 S09A       RPC133 388 P09A         1.625 to 1.875       RPC333 163 S05N       RPC133 388 P09A         1.625 to 1.875       RPC333 163 S05N       RPC133 388 P09A         1.625 to 1.875       RPC333 163 S05N       RPC133 388 P09A         1.625 to 1.875       RPC333 396 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 396 S06N       RPC133 388 P05N         1.625 to 1.875       RPC333 396 S06N       RPC133 388 P05N         1.625 to 1.875	.625 to .875	RPC317 161 S01N	RPC117 151 P01N	
.625 to .875       RPC317 161 S03N       RPC117 151 P03N         .625 to 1.000       RPC321 161 S16N       RPC121 151 P16N         1.000 to 1.187       RPC331 395 S16A       RPC121 387 P16N         .875 to 1.375       RPC333 163 S08A       RPC133 153 P08A         1.625 to 1.875       RPC333 396 S08A       RPC133 388 P08A         1.625 to 1.375       RPC333 163 S09A       RPC133 153 P09A         1.625 to 1.375       RPC333 396 S09A       RPC133 388 P09A         1.625 to 1.875       RPC333 163 S09A       RPC133 388 P09A         1.625 to 1.875       RPC333 163 S09A       RPC133 388 P09A         1.625 to 1.875       RPC333 396 S09A       RPC133 388 P09A         1.625 to 1.875       RPC333 163 S05N       RPC133 388 P09A         1.625 to 1.875       RPC333 163 S05N       RPC133 388 P09A         1.625 to 1.875       RPC333 163 S05N       RPC133 388 P09A         1.625 to 1.875       RPC333 396 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 396 S06N       RPC133 388 P05N         1.625 to 1.875       RPC333 396 S06N       RPC133 388 P05N         1.625 to 1.875	250 to 625	PPC217 160 602N	PPC117 150 P02N	
.625 to 1.000       RPC321 161 S16N       RPC121 151 P16N         1.000 to 1.187       RPC331 395 S16N       RPC121 387 P16N         .875 to 1.375       RPC333 163 S08A       RPC133 153 P08A         1.625 to 1.875       RPC333 396 S08A       RPC133 388 P08A         1.625 to 1.875       RPC333 163 S09A       RPC133 389 P08A         1.625 to 1.875       RPC333 163 S09A       RPC133 389 P08A         .875 to 1.625       RPC333 396 S09A       RPC133 389 P08A         .875 to 1.625       RPC333 396 S09A       RPC133 388 P09A         .875 to 1.875       RPC333 397 S09A       RPC133 388 P09A         .875 to 1.875       RPC333 163 S05N       RPC133 389 P09A         .875 to 1.375       RPC333 163 S05N       RPC133 388 P05N         .875 to 1.625       RPC333 397 S05N       RPC133 388 P05N         .875 to 1.875       RPC333 397 S05N       RPC133 388 P05N         .875 to 1.375       RPC333 163 S06N       RPC133 388 P05N         .875 to 1.375       RPC333 163 S06N       RPC133 153 P06N         .875 to 1.625       RPC333 396 S06N       RPC133 388 P06N         .875 to 1.625       RPC333 396 S06N       RPC133 388 P06N				
1.000 to 1.187         RPC321 395 S16N         RPC121 387 P16N           .875 to 1.375         RPC333 163 S08A RPC333 396 S08A 1.625 to 1.875         RPC333 163 S08A RPC333 397 S08A         RPC133 153 P08A RPC133 388 P08A RPC133 389 P08A           .875 to 1.375         RPC333 163 S09A RPC333 397 S09A         RPC133 153 P09A RPC133 388 P09A           .875 to 1.625         RPC333 163 S05N RPC333 397 S09A         RPC133 153 P05N RPC133 389 P09A           .875 to 1.375         RPC333 163 S05N RPC333 397 S05N         RPC133 153 P05N RPC133 388 P05N RPC133 389 P05N           .875 to 1.875         RPC333 163 S05N RPC333 397 S05N         RPC133 153 P05N RPC133 388 P05N RPC133 388 P05N           .875 to 1.375         RPC333 163 S06N RPC333 397 S05N         RPC133 153 P06N RPC133 388 P06N           .875 to 1.625         RPC333 396 S06N RPC333 396 S06N         RPC133 388 P06N	.020 10 .010			
.875 to 1.375       RPC333 163 S08A       RPC133 153 P08A         1.375 to 1.625       RPC333 396 S08A       RPC133 388 P08A         1.625 to 1.875       RPC333 163 S09A       RPC133 389 P08A         .875 to 1.375       RPC333 163 S09A       RPC133 153 P09A         1.375 to 1.625       RPC333 397 S08A       RPC133 153 P09A         1.375 to 1.625       RPC333 396 S09A       RPC133 388 P09A         1.625 to 1.875       RPC333 397 S09A       RPC133 388 P09A         1.625 to 1.875       RPC333 163 S05N       RPC133 389 P09A         .875 to 1.375       RPC333 163 S05N       RPC133 388 P05N         1.375 to 1.625       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.375       RPC333 163 S06N       RPC133 388 P06N         .875 to 1.625       RPC333 396 S06N       RPC133 388 P06N				
1.375 to 1.625       RPC333 396 S08A       RPC133 388 P08A         1.625 to 1.875       RPC333 397 S08A       RPC133 389 P08A         .875 to 1.375       RPC333 163 S09A       RPC133 153 P09A         1.375 to 1.625       RPC333 396 S09A       RPC133 389 P09A         1.625 to 1.875       RPC333 163 S09A       RPC133 389 P09A         1.625 to 1.875       RPC333 163 S05N       RPC133 153 P05N         1.875 to 1.625       RPC333 396 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 389 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 389 P05N         1.625 to 1.875       RPC333 163 S06N       RPC133 389 P05N         1.625 to 1.875       RPC333 396 S06N       RPC133 389 P05N         .875 to 1.375       RPC333 163 S06N       RPC133 153 P06N         1.375 to 1.625       RPC333 396 S06N       RPC133 388 P06N	1.000 to 1.187	RPC321 395 S16N	RPC121 387 P16N	
1.625 to 1.875       RPC333 397 S08A       RPC133 389 P08A         .875 to 1.375       RPC333 163 S09A       RPC133 153 P09A         1.375 to 1.625       RPC333 396 S09A       RPC133 388 P09A         1.625 to 1.875       RPC333 397 S09A       RPC133 389 P09A         .875 to 1.375       RPC333 163 S05N       RPC133 153 P05N         1.375 to 1.625       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 396 S06N       RPC133 389 P05N         .875 to 1.625       RPC333 396 S06N       RPC133 388 P06N				
.875 to 1.375       RPC333 163 S09A       RPC133 153 P09A         1.375 to 1.625       RPC333 396 S09A       RPC133 388 P09A         1.625 to 1.875       RPC333 397 S09A       RPC133 389 P09A         .875 to 1.375       RPC333 163 S05N       RPC133 153 P05N         1.375 to 1.625       RPC333 396 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 389 P05N         1.625 to 1.875       RPC333 396 S06N       RPC133 153 P06N         1.375 to 1.625       RPC333 396 S06N       RPC133 388 P06N				
1.375 to 1.625       RPC333 396 S09A       RPC133 388 P09A         1.625 to 1.875       RPC333 397 S09A       RPC133 389 P09A         .875 to 1.375       RPC333 163 S05N       RPC133 153 P05N         1.375 to 1.625       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 389 P05N         1.625 to 1.875       RPC333 163 S06N       RPC133 153 P06N         1.375 to 1.625       RPC333 396 S06N       RPC133 388 P06N	1.625 to 1.875	RPC333 397 508A	RPC 133 389 P08A	
1.625 to 1.875       RPC333 397 S09A       RPC133 389 P09A         .875 to 1.375       RPC333 163 S05N       RPC133 153 P05N         1.375 to 1.625       RPC333 396 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 389 P05N         .875 to 1.375       RPC333 163 S06N       RPC133 153 P06N         1.375 to 1.625       RPC333 396 S06N       RPC133 388 P06N	.875 to 1.375	RPC333 163 S09A	RPC133 153 P09A	
.875 to 1.375       RPC333 163 S05N       RPC133 153 P05N         1.375 to 1.625       RPC333 396 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 389 P05N         .875 to 1.375       RPC333 163 S06N       RPC133 153 P06N         1.375 to 1.625       RPC333 396 S06N       RPC133 388 P06N	1.375 to 1.625			
1.375 to 1.625       RPC333 396 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 389 P05N         .875 to 1.375       RPC333 163 S06N       RPC133 153 P06N         1.375 to 1.625       RPC333 396 S06N       RPC133 388 P06N	1.625 to 1.875	RPC333 397 S09A	RPC133 389 P09A	
1.375 to 1.625       RPC333 396 S05N       RPC133 388 P05N         1.625 to 1.875       RPC333 397 S05N       RPC133 389 P05N         .875 to 1.375       RPC333 163 S06N       RPC133 153 P06N         1.375 to 1.625       RPC333 396 S06N       RPC133 388 P06N	875 to 1.375	BPC333 163 S05N	BPC133 153 P05N	
.875 to 1.375         RPC333 163 S06N         RPC133 153 P06N           1.375 to 1.625         RPC333 396 S06N         RPC133 388 P06N				
1.375 to 1.625 RPC333 396 S06N RPC133 388 P06N	1.625 to 1.875	RPC333 397 S05N	RPC133 389 P05N	
1.375 to 1.625 RPC333 396 S06N RPC133 388 P06N	875 to 1 375	PPC222 162 S06N	PPC133 153 P06N	

Note: RPC with pressure terminals are also available, see pages 1438–1441.

Raintight

# **RPC Circuit Breaking Power Connectors** With Solder Well Terminals†

	Circuit Description	Volts (VAC)	Contact Size	Shell Size	Hub Size (In.)	Square Flanged Receptacle, Dust Cap and Back Box Cat. # (For Surface Mounting)‡*	Motor Plug Cat. #
100 Amps Grounded	4w, 5p	600	1/0	041	1½ 2	RPC641 014 S04A AJ57 RPC641 014 S04A AJ67	RPC541 157 P04A
Ungrounded	5w, 5p	600	1/0	041	1½ 2	RPC641 014 S02N AJ57 RPC641 014 S02N AJ67	RPC541 157 P02N
200 Amps Grounded	3w, 4p	480	4/0	041	2 21/2	RPC641 014 S10A AJ68 RPC641 014 S10A AJ78	RPC541 157 P10A

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## **RPC Circuit Breaking Power Connectors** With Solder Well Terminals†



Solder well terminals provided as standard. Crimp contacts are optionally available, add suffix T to catalog number. Example: RPC217-014-S09AT-ARE23.
For square flanged receptacle without dust cap, change the middle three digits of the catalog number from 014 to 127. Example: RPC217-127-S09A-ARE23.
\*For square flanged receptacle with dust cap for panel mounting, delete the last digits of the catalog number specifying the backbox. Example: RPC217-014-S09A.
§For plugs and cord connectors:
Liquidtight/Conduit Adapter –

To order with adapter, add letters "LT" to first section of catalog number. Example: RPCLT317-160-S09A. Additional Cable Strain Belief Ontions –

Additional Cable Strain Relief Options – • Stainless steel wire mesh grip – To order, add letter "K" to first section of catalog number. Example: RPCK317-160-S09A.

Cable Diameter Range	Cord Connector Cat. #§	Plug Cat. #§
1.375 to 1.875	RPC741 164 S04A	RPC541 154 P04A
1.875 to 2.062	RPC741 398 S04A	RPC541 390 P04A
2.062 to 2.250	RPC741 399 S04A	RPC541 391 P04A
1.375 to 1.875	RPC741 164 S02N	RPC541 154 P02N
1.875 to 2.062	RPC741 398 S02N	RPC541 390 P02N
2.062 to 2.250	RPC741 399 S02N	RPC541 391 P02N
1.375 to 1.875	RPC741 164 S10A	RPC541 154 P10A
1.875 to 2.062	RPC741 398 S10A	RPC541 390 P10A
2.062 to 2.250	RPC741 399 S10A	RPC541 391 P10A

Note: RPC with pressure terminals are also available, see pages 1438-1441.



Raintight

# **RPC Circuit Breaking Power Connectors** With Pressure Terminals

						Square Flanged Receptacle, Dust Cap and Back Box	
	Circuit Description	Volts (VAC)	Contact Size	Shell Size	Hub Size (In.)	Cat. # (For Surface Mounting) <b>⊒</b> ‡	Motor Plug Cat. #
30 Amps Grounded	0.00	600	#10	021	3/4	RPC221 014 S04AR ARE23	RPC121 157 P04AR
Grounded	2w, 3p	600	#10	021	<sup>9</sup> / <sub>4</sub> 1	RPC221 014 S04AR ARE23 RPC221 014 S04AR ARE33	RPC121 137 P04AR
Ungrounded	3w, 3p	600	#10	021	<sup>3</sup> / <sub>4</sub> 1	RPC221 014 S02NR ARE23 RPC221 014 S02NR ARE33	RPC121 157 P02NR
60 Amps					1	NF0221014 302NN ANE33	
Grounded	3w, 4p	600	#4	033	11/4 11/2	RPC233 014 S08AR ARE46 RPC233 014 S08AR ARE56	RPC133 157 P08AR
	4w, 5p	480	#4	033	1 <sup>1</sup> / <sub>4</sub> 1 <sup>1</sup> / <sub>2</sub>	RPC233 014 S09AR ARE46 RPC233 014 S09AR ARE56	RPC133 157 P09AR
Ungrounded	4w, 4p	600	#4	033	1 <sup>1</sup> / <sub>4</sub> 1 <sup>1</sup> / <sub>2</sub>	RPC233 014 S05NR ARE46 RPC233 014 S05NR ARE56	RPC133 157 P05NR
	5w, 5p	480	#4	033	1 <sup>1</sup> / <sub>4</sub> 1 <sup>1</sup> / <sub>2</sub>	RPC233 014 S06NR ARE46 RPC233 014 S06NR ARE56	RPC133 157 P06NR

For alternate polarizations, see page 1431, "Options" section.

Raintight

### **RPC Circuit Breaking Power Connectors** With Pressure Terminals



Cable Diameter Range	Cord Connector Cat. #*	Plug Cat. #*	
.250 to .625 .625 to 1.000	RPC321 160 S04AR RPC321 161 S04AR	RPC121 150 P04AR RPC121 151 P04AR	For square flanged receptacle without dust cap, change the middle three digits of the catalog number from 014 to 127. Example: RPC221-127-S04AR-ARE23. ‡For square flanged receptacle with dust cap for panel
.250 to .625	RPC321 160 S02NR	RPC121 150 P02NR	specifying the backbox. Example: RPC221-014-S04AR.
.625 to 1.000	RPC321 161 S02NR	RPC121 151 P02NR	*For plugs and cord connectors:
.875 to 1.375 1.375 to 1.625 1.625 to 1.875	RPC333 163 S08AR RPC333 396 S08AR RPC333 397 S08AR	RPC133 153 P08AR RPC133 388 P08AR RPC133 389 P08AR	Liquidtight/Conduit Adapter – To order with adapter, add letters "LT" to first section of catalog number. Example: RPCLT321-160-S04AR. Additional Cable Strain Relief Options –
.875 to 1.375	RPC333 163 S09AR	RPC133 153 P09AR	<ul> <li>Stainless steel wire mesh grip – To order, add letter</li></ul>
1.375 to 1.625	RPC333 396 S09AR	RPC133 388 P09AR	"K" to first section of catalog number. Example:
1.625 to 1.875	RPC333 397 S09AR	RPC133 389 P09AR	RPCK321-160-S04AR.
.875 to 1.375	RPC333 163 S05NR	RPC133 153 P05NR	
1.375 to 1.625	RPC333 396 S05NR	RPC133 388 P05NR	
1.625 to 1.875	RPC333 397 S05NR	RPC133 389 P05NR	
.875 to 1.375	RPC333 163 S06NR	RPC133 153 P06NR	
1.375 to 1.625	RPC333 396 S06NR	RPC133 388 P06NR	
1.625 to 1.875	RPC333 397 S06NR	RPC133 389 P06NR	

8P

Raintight

# **RPC Circuit Breaking Power Connectors** With Pressure Terminals

	Circuit Description	Volts (VAC)	Contact Size	Shell Size	Hub Size (In.)	Square Flanged Receptacle, Dust Cap and Back Box Cat. # (For Surface Mounting)■‡	Motor Plug Cat. #
100 Amps Grounded	4w, 5p	600	1/0	041	1½ 2	RPC641 014 S04AR AJ57 RPC641 014 S04AR AJ67	RPC541 157 P04AR
Ungrounded	5w, 5p	600	1/0	041	1½ 2	RPC641 014 S02NR AJ57 RPC641 014 S02NR AJ67	RPC541 157 P02NR

For alternate polarizations, see page 1431, "Options" section.

# **RPC Circuit Breaking Power Connectors** With Pressure Terminals



Cable Diameter Range	Cord Connector Cat. #*	Plug Cat. #*	■ For square flanged receptacle without dust cap, change the middle three digits of the catalog number from 014 to 127. Example: RPC221-127-S04AR-ARE23. ‡For square flanged receptacle with dust cap for panel
1.375 to 1.875 1.875 to 2.062 2.062 to 2.250 1.375 to 1.875 1.875 to 2.062 2.062 to 2.250	RPC741 164 S04AR RPC741 398 S04AR RPC741 399 S04AR RPC741 164 S02NR RPC741 398 S02NR RPC741 399 S02NR	RPC541 154 P04AR RPC541 390 P04AR RPC541 391 P04AR RPC541 154 P02NR RPC541 390 P02NR RPC541 391 P02NR	mounting, delete the last digits of the catalog number specifying the backbox. Example: RPC221-014-S04AR. "For plugs and cord connectors: Liquidtight/Conduit Adapter – To order with adapter, add letters "LT" to first section of catalog number. Example: RPCLT321-160-S04AR. Additional Cable Strain Relief Options – • Stainless steel wire mesh grip – To order, add letter "K" to
			first section of catalog number. Example: RPCK321-160- S04AR.

8р

Raintight

# **RPE Control Circuit and Power Connectors** With Solder Well Terminals<sup>+</sup>



Circuit Description	Contact Size	Amps	Volts (VAC)	Shell Size	Hub Size (In.)	Square Flanged Receptacle, Dust Cap and Back Box Cat. # (For Surface Mounting)‡*	Motor Plug Cat. #
Control							
6w, 7p	#12	20	480	017	<sup>3</sup> / <sub>4</sub> 1	RPE217 014 S06A ARE23 RPE217 014 S06A ARE33	RPE117 157 P06A
7w, 7p	#12	20	480	017	<sup>3</sup> /4 1	RPE217 014 S05N ARE23 RPE217 014 S05N ARE33	RPE117 157 P05N
12w, 12p	#16	16	250	017	³/₄ 1	RPE217 014 S07N ARE23 RPE217 014 S07N ARE33	RPE117 157 P07N
18w, 19p	#12	20	250	021	³/₄ 1	RPE221 014 S08A ARE23 RPE221 014 S08A ARE33	RPE121 157 P08A
19w, 19p	#12	20	250	021	<sup>3</sup> / <sub>4</sub> 1	RPE221 014 S09N ARE23 RPE221 014 S09N ARE33	RPE121 157 P09N
38w, 39p	#12	20	250	033	1 1/4 1 1/2	RPE233 014 S19A ARE46 RPE233 014 S19A ARE56	RPE133 157 P19A
39w, 39p	#12	20	250	033	1 <sup>1</sup> / <sub>4</sub> 1 <sup>1</sup> / <sub>2</sub>	RPE233 014 S17N ARE46 RPE233 014 S17N ARE56	RPE133 157 P17N

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Crouse-Hinds

# **RPE Control Circuit and Power Connectors** With Solder Well Terminals



Cable Diameter Range	Cord Connector Cat. #§	Plug Cat. #§	+Solder well terminals provided as standard. Crimp
.250 to .625 .625 to .875	RPE317 160 S06A RPE317 161 S06A	RPE117 150 P06A RPE117 151 P06A	contacts are optionally available, add suffix T to catalog number. Example: RPE633-014-S24NT-AJ57. ‡For square flanged receptacle without dust cap,
.250 to .625 .625 to .875	RPE317 160 S05N RPE317 161 S05N	RPE117 150 P05N RPE117 151 P05N	change the middle three digits of the catalog number from 014 to 127. Example: RPE633-127-S24N-AJ57. *For square flanged receptacle with dust cap for panel mounting, delete the last three digits of the catalog
.250 to .625 .625 to .875	RPE317 160 S07N RPE317 161 S07N	RPE117 150 P07N RPE117 151 P07N	number specifying the backbox. Example: RPE633-014- S24N. §For plugs and cord connectors: Liquidtight/Conduit Adapter –
.625 to 1.000 1.000 to 1.187	RPE321 161 S08A RPE321 395 S08A	RPE121 151 P08A RPE121 387 P08A	To order with adapter, add letters "LT" to the first section of the catalog number. Example: RPELT733- 396-S24N.
.625 to 1.000 1.000 to 1.187	RPE321 161 S09N RPE321 395 S09N	RPE121 151 P09N RPE121 387 P09N	Additional Cable Strain Relief Options – • Stainless steel wire mesh grip – To order, add letter "K" to first section of the catalog number. Example: BPEK733-396-S24N.
.875 to 1.375 1.375 to 1.625	RPE333 163 S19A RPE333 396 S19A	RPE133 153 P19A RPE133 388 P19A	TH EIG0-050-02-HV.
.875 to 1.375 1.375 to 1.625	RPE333 163 S17N RPE333 396 S17N	RPE133 153 P17N RPE133 388 P17N	

#### **RPC and RPE Connectors 8**P

Accessories



### For #16 Through #10 **Contacts:**

The RPE017-440 crimping tool has been designed to crimp a wide range of solid and stranded type conductors. The crimping head is adjusted and sealed at the factory. The tool automatically crimps and gauges all size contacts without readjustment.



### **Contact Removal Tools:**

The contact removal tool extracts the contact from the insert assembly without complete disassembly of the connector.

Cat #	Description
RPE017 402T	for use with #16 contacts.
RPE017 403T	for use with #12 contacts.
RPE017 404T	for use with #10 contacts.

**Dust Caps:** For Receptacles For RPC or RPE Series



Cat. #	Description
RPE017 009 RPE021 009 RPE033 009 RPE041 009	Dust Cap w/Eyelet for Receptacle

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# **Back Boxes and Adapters**

## For Mounting RPC and RPE Square **Flanged Receptacles**





45° Angle adapter

Flat adapter

**Adapters** Shell Sizes of Square Flanged Receptacles

		0 1			
45° Angle		Flat			
017 Cat. #	021 Cat. #	017 Cat. #	021 Cat. #		
RPE017 156	RPE021 156	RPE017 141	RPE021 142		

#### **Shell Sizes of Square Flanged Receptacles**

Flat			
017 Cat. #	021 Cat. #	033 Cat. #	041 Cat. #
RPE017 143	RPE021 144		

RPE033 145 RPE041 146



Back Boxes FS and FSC							
Hub	FS†	FSC†					
Size in.	Cat. #	Cat. #					
<sup>1</sup> / <sub>2</sub>	FS1 SA	FSC1 SA					
<sup>3</sup> / <sub>4</sub>	FS2 SA	FSC2 SA					
<b>1</b>	FS3 SA	FSC3 SA					



ARE‡ Size in. Cat. # Rating ARE13 ARE23 30A ARE33 ARE36 ARE46 60A ARE56

Hub

1/2

3/4

1

1

11/4

11/2

AJ‡ Hub

1 11/4

**1** 1/2

11/2

2

2 2<sup>1</sup>/<sub>2</sub>

Size in.

### ARE Back Box



Cat. # Rating AJ37 AJ47 60A and AJ57 100A AJ67 AJ58 AJ68 AJ78 200A

#### **Shell Sizes of Square Flanged Receptacles**

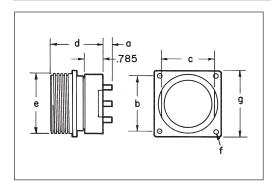
Flat	
033 Cat. #	041 Cat. #
RPE033 145	RPE041 146
	RPE041 147

AJ Black Box

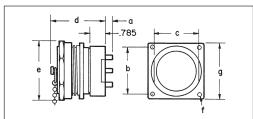
† Any of the FS or FD single gang, two gang tandem or multiple gang boxes with individual cover openings may be used with these adapters.
For listings, dimensions and other details refer to Section 3F.
‡ Other AR and AJ back boxes may be used with these adapters. For listings, dimensions and other details refer to Section 1P.



# **RPC Circuit Breaking Power Connectors RPE Control Circuit and Power Connectors Dimensions (Inches)**

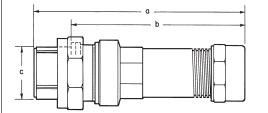


Square Flanged Receptacle						
and Size		с	d	е	f	g
217 221 233 241 633 641	1.375 1.750 2.375 2.813 2.375 2.813	1.317 1.692 2.317 2.817 2.317 2.317 2.817	2.165 2.165 2.165 2.165 2.915 2.915	1.562 2.000 2.625 3.187 2.625 3.187	.190 .190 .214 .250 .214 .250	1.750 2.250 2.875 3.438 2.875 3.438
а	Contact for	or AWG	Wire			
0.1875 0.250 0.375 0.500	#16, #12, = #4 <sup>1</sup> / <sub>0</sub>	#10		_		

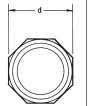


Square Flanged Receptacle with Dust Cap Shell Type

and Size	b	с	d	е	f	g
217	1.375	1.317	2.812	1.927	.190	1.750
221	1.750	1.692	2.812	2.468	.190	2.250
233	2.375	2.317	2.812	3.145	.214	2.875
241	2.813	2.817	2.812	3.754	.250	3.438
633	2.375	2.317	3.552	3.145	.214	2.875
641	2.813	2.817	3.552	3.754	.250	3.438



Dimension a - same as above 



Shell Type and Size	a†	b†	с	d
117	5.033	4.133	1.270	1.921
121	5.090	4.190	1.675	2.468
133	6.093	5.193	2.295	3.140
141	6.653	5.753	2.800	3.750
533	6.843	5.193	2.295	3.140
541	7.403	5.753	2.800	3.750

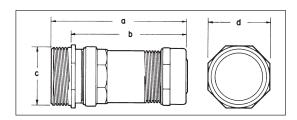
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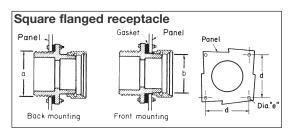
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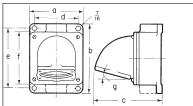
1446

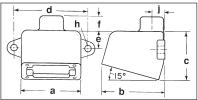
8Р

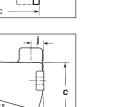
**RPC Circuit Breaking Power Connectors RPE Control Circuit and Power Connectors Dimensions (Inches)** 











Shell Type and Size	a†	b†	с	d
317	5.033	4.116	1.562	1.812
321	5.090	4.173	1.885	2.300
333	6.093	5.176	2.625	3.140
341	6.653	5.736	3.187	3.730
700	C 0 4 0	E 170	0.005	0 4 4 0

341	6.653	5.736	3.187	3.730
733	6.843	5.176	2.625	3.140
741	7.403	5.736	3.187	3.730
t These dimensions :	are approxin	nate and v	arv with ca	ble size

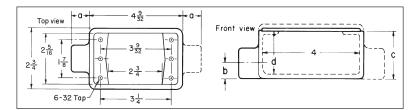
**Cord Connector Receptacle** 

#### **Panel Mounting Methods**

	Back	Mounti	ng	Front Mounting		
Shell Size	а	d	е	b	d	е
017	<b>1</b> 19/32	13/8	3/16	<b>1</b> <sup>17</sup> / <sub>32</sub>	13/8	3/16
021	2 <sup>1</sup> / <sub>32</sub>	<b>1</b> <sup>3</sup> / <sub>4</sub>	<sup>3</sup> / <sub>16</sub>	<b>1</b> <sup>31</sup> / <sub>32</sub>	<b>1</b> <sup>3</sup> / <sub>4</sub>	<sup>3</sup> / <sub>16</sub>
033	2 <sup>21</sup> / <sub>32</sub>	2 <sup>3</sup> /8	7/32	2 <sup>21</sup> / <sub>32</sub>	2³/8	7/32
041	37/32	213/16	1/4	35/32	2 <sup>13</sup> / <sub>16</sub>	1/4

AJ Back	Boxes							
Form	Size	а	b	С	d	е	f	g
C and D C and D	<sup>3</sup> /4, 1, 1 <sup>1</sup> /4, 1 <sup>1</sup> /2 2	5 <sup>7</sup> /8 5 <sup>7</sup> /8	8 8	7 <sup>7</sup> / <sub>16</sub> 8	4 <sup>7</sup> /8 4 <sup>7</sup> /8	7 7	5 <sup>7</sup> /8 5 <sup>7</sup> /8	15° 15°
E	1 <sup>1</sup> / <sub>2</sub> , 2, 2 <sup>1</sup> / <sub>2</sub>	8	103/4	97/8	63/4	<b>9</b> <sup>1</sup> / <sub>2</sub>	8	45°

ARE E	Back B	oxes						
Form	Size	а	b	с	d	е	f	h dia.
В	1/2	3³/8	35/8	2 <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	1	27/32	11/32
В	3/4	3³/8	35/8	<b>2</b> <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	1	27/32	11/32
В	1	3³/8	35/8	<b>2</b> <sup>3</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>4</sub>	1	<sup>31</sup> / <sub>32</sub>	<sup>11</sup> / <sub>32</sub>
С	1	4 <sup>1</sup> / <sub>4</sub>	411/16	411/16	5 <sup>1</sup> / <sub>4</sub>	15/8	<sup>15</sup> / <sub>16</sub>	3/8
С	11/4	<b>4</b> <sup>1</sup> / <sub>4</sub>	411/16	411/16	51/4	<b>1</b> 5/8	1	3/8
С	<b>1</b> 1/2	4 <sup>1</sup> / <sub>4</sub>	411/16	411/16	5 <sup>1</sup> /4	15/8	<b>1</b> 1/16	3/8



Series	Hub Size	а	b	С	d
	1/2	7/8	5/8	17/8	111/1
FS	3/4	7/8	3/4	17/8	111/1
	1	1	7/8	17/8	111/1