

EPCB Circuit Breakers and Enclosures with Interlocked Arktite® Receptacles

APJ/NPJ Arktite Plugs‡

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

Dust-Ignitionproof
 Raintight
 Wet Locations

4P

Applications:

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

Features:

- Spring door receptacle located at the bottom is mechanically interlocked with the circuit breaker operating mechanism for maximum safety. Plug and receptacle contacts cannot be made or broken under load. The circuit breaker cannot be closed until the plug is fully inserted and the plug cannot be withdrawn unless the breaker is open
- Operating handles can be padlocked in either "ON" or "OFF" positions. Breakers are trip-free of the handles and will open under short circuit or overload even if the handle is locked in the "ON" position
- Quick installation and leveling is provided by the three-point mounting arrangement having one keyhole slot at top and two open slots at bottom
- Bodies have four 1 1/4" taper tapped conduit hubs with integral bushings. Two are located at top and two directly below
- When installing, seals suitable for Class I, Group B hazardous areas must be located within 1 1/2" of each conduit opening

Certifications and Compliances:

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

Standard Materials:

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

Standard Finishes:

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

Electrical Rating Ranges:

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

Options:

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

Description	Suffix
• Special polarity. For use where two or more receptacles of the same ampere rating, style and number of poles are to be installed in the same area for use on different voltages. Receptacle interior rotated 22 1/2° to right (viewed from face) and plug changed to match	S4
• Side bosses drilled and tapped same size as standard hubs	S366
• Back boss drilled and tapped same size as standard hubs.....	S367

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

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

Grounding:

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



‡Pressure connectors are supplied as standard. To specify crimp/solder type terminations add the suffix "T" to the catalog number. For example: APJ3365-T (Plug).

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Ordering Information:

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

Circuit Breaker Receptacle with Spring Door Housing	Rating	Enclosure with Circuit Breaker		Cutler-Hammer		General Electric	
		Hub Size (In.)	Ckt. Bkr. Amps				
30 amp. 2-wire, 3-pole, Style 2	2-pole, 600VAC or 250 VDC	1 1/4	20	EPCB43632 WT20HFD 2	EPCB43632 TT20TED 2		
			30	EPCB43632 WT30HFD 2	EPCB43632 TT30TED 2		
			40*	EPCB43632 WT40HFD 2	EPCB43632 TT40TED 2		
			50*	EPCB43632 WT50HFD 2	EPCB43632 TT50TED 2		
30 amp. 3-wire, 4-pole, Style 2	3-pole, 600VAC or 250 VDC	1 1/4	20	EPCB43642 WT20HFD 3	EPCB43642 TT20TED 3		
			30	EPCB43642 WT30HFD 3	EPCB43642 TT30TED 3		
			40*	EPCB43642 WT40HFD 3	EPCB43642 TT40TED 3		
			50*	EPCB43642 WT50HFD 3	EPCB43642 TT50TED 3		
60 amp. 2-wire, 3-pole, Style 2	2-pole, 600VAC or 250 VDC	1 1/4	50	EPCB46632 WT50HFD 2	EPCB46632 TT50TED 2		
			60*	EPCB46632 WT60HFD 2	EPCB46632 TT60TED 2		
			70*	EPCB46632 WT70HFD 2	EPCB46632 TT70TED 2		
			90*	EPCB46632 WT90HFD 2	EPCB46632 TT90TED 2		
60 amp. 3-wire, 4-pole, Style 2	3-pole, 600VAC or 250 VDC	1 1/4	50	EPCB46642 WT50HFD 3	EPCB46642 TT50TED 3		
			60*	EPCB46642 WT60HFD 3	EPCB46642 TT60TED 3		
			70*	EPCB46642 WT70HFD 3	EPCB46642 TT70TED 3		
			90*	EPCB46642 WT90HFD 3	EPCB46642 TT90TED 3		
100 amp. 2-wire, 3-pole, Style 2	2-pole, 600VAC or 250 VDC	1 1/4	70	EPCB41632 WT70HFD 2	EPCB41632 TT70TED 2		
			90	EPCB41632 WT90HFD 2	EPCB41632 TT90TED 2		
			100	EPCB41632 WT100HFD 2	EPCB41632 TT100TED 2		
100 amp. 3-wire, 4-pole, Style 2	3-pole, 600VAC or 250 VDC	1 1/4	70†	EPCB41642 WT70HFD 3	EPCB41642 TT70TED 3		
			90†	EPCB41642 WT90HFD 3	EPCB41642 TT90TED 3		
			100†	EPCB41642 WT100HFD 3	EPCB41642 TT100TED 3		

‡Pressure connectors are supplied as standard. To specify crimp/solder type terminators add the suffix "T" to the catalog number. For example: APJ3385-T (Plug).
 *Circuit breaker trip rating may exceed receptacle rating for welding equipment applications only, as higher trip rating may not protect wiring.
 †For detailed information on circuit breaker selection see Section 3C.



APJ Plug



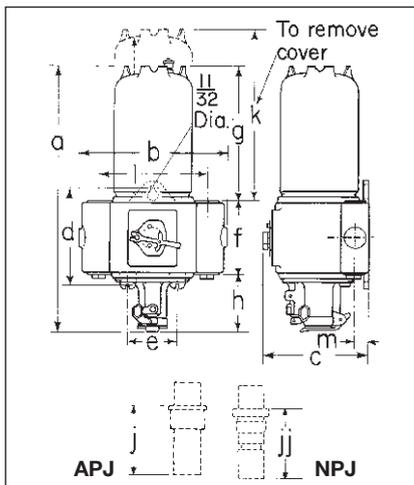
NPJ Plug

APJ/NPJ Arktite Plugs

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

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

Dimensions In Inches:



Receptacle	a	b	c	d	e	f
30 Amp.	26 3/4	11 5/16	11 3/4	8 5/8	5	7 3/4
60 Amp.	26 3/4	11 5/16	11 3/4	8 5/8	5	7 3/4
100 Amp.	27 1/2	11 5/16	11 3/4	8 5/8	5	7 3/4

Receptacle	g	h	j	jj	k	l	m
30 Amp.	13 9/16	4 15/16	4 13/16	7	24 3/4	8 3/16	1 5/8
60 Amp.	13 9/16	5 7/16	5 13/16	6 13/16	24 3/4	8 3/16	1 5/8
100 Amp.	13 9/16	6 7/16	6 7/8	7 3/4	24 3/4	8 3/16	1 5/8

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