

Arktite non-metallic heavy duty circuit breaking plugs and receptacles

Made of Krydon

600 VAC/250 VDC, 50-400 Hz

Watertight^A
Corrosion-resistant
NEMA 4X

1P

Applications:

Arktite® circuit breaking plugs, receptacles, cord connectors and motor plugs are used:

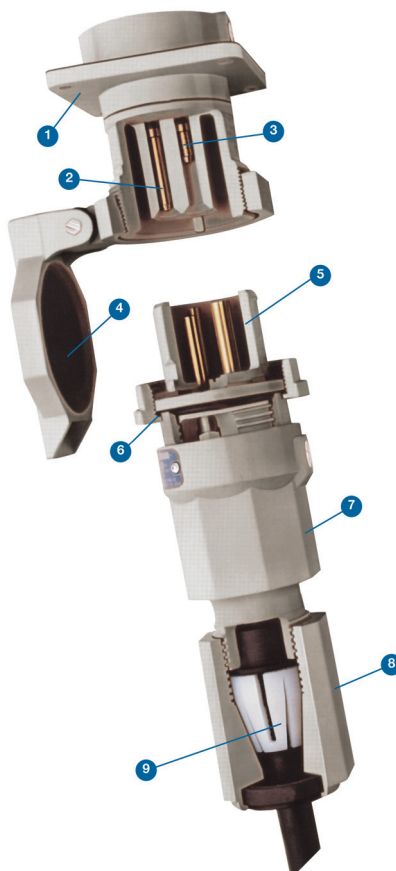
- To supply power to portable electrical devices, such as welders, motors, pumps, conveyors and other similar equipment
- Where electrical loads must be quickly disconnected from power sources
- In areas where severe corrosion hose down, moisture, dirt and dust are problems
- Indoors and outdoors in non-hazardous areas of chemical plants, sewage treatment facilities, cement plants, pulp and paper plants, food processing plants and other similar industries

Features:

- 1 Molded of Krydon fiberglass-reinforced polyester, which is highly resistant to corrosion, heat, weathering and physical abuse
- 2 Grounding contacts that make first and break last in the unlikely event of a keyway failure
- 3 Split pin contact design provides 360° of electrical contact
- 4 Spring door provides environmental protection of receptacle (NEMA 4)
- 5 Keyed for a perfect match in the molded one-piece insulator housing
- 6 Sealing gaskets at all critical points inside Arktite plugs and receptacles protect against dust, dirt, mud, water and corrosive contaminants
- 7 Plugs can be used in both hazardous and non-hazardous areas when used with appropriately rated Arktite receptacles
- 8 Total interchangeability with all existing Arktite products for comparable ratings and configurations
- 9 A unique patented strain relief design prevents stress from reaching wire terminations at the contacts

Certifications and compliances:

- UL standard: 1682
- UL1010 – Hazardous Locations (NPJ plug only)
- CSA standard: C22.2 No. 182.1
- Wet and damp locations; watertight



Grounding:

- NPJ plugs are Style 2, which includes a grounding conductor in the flexible cord or cable that is electrically connected to the extra (grounding) pole.
- NR receptacles are Style 2, in which the ground connection is made before line and load poles engage, and is broken after line and load poles disengage.
- The National Electrical Code and Canadian Electrical Code requires that under conditions favorable to corrosion, the grounding conductor for enclosures and equipment be of copper or other corrosion-resistant material in alternating current systems. This necessitates running another conductor, usually of copper, back to the common grounding electrode. This may be run through the conduit containing the circuit conductors. At the receptacle, this grounding conductor should be connected to the extra (grounding) pole by the pressure connector provided for that purpose. Where such an extra ground conductor is required, Style 2 receptacles should be used.

Interchangeability of plugs with other non-hazardous and hazardous location receptacles:

- Plugs listed for use with NRE/NREA assemblies are standard Arktite NPJ plugs. Other standard APJ and CPH plugs of the same rating, style and number of poles may be used with NR receptacles, as well as with AR and AREA receptacles listed in Section 1P, with DR receptacles listed in Section 2P, with DBR, NBR, NSR, WSR, CSR, WSQC and WSRD receptacles listed in Section 3P and with FSQ, EPC, FSQC, W2SR, C2SR and EPCB receptacles listed in Section 4P.
- Portable equipment, suitable for locations and equipped with the proper NPJ plug, can be used with non-hazardous AR receptacles; with DBR and WSR interlocked receptacles located in non-hazardous locations; with EPC, EPCB and FSQC receptacles for Class I, Groups B, C, D hazardous locations; with DR and DBR receptacles for Class II, Groups F, G hazardous locations; and with NBR/NSR, CSR interlocked receptacles for hose down and corrosive locations.

Standard materials:

- Housing, interiors, spring doors, clamping rings – Krydon fiberglass-reinforced polyester
- Gaskets and o-rings – neoprene
- Cable clamping basket – nylon
- Contacts – pressure: brass; crimp/solder: leaded brass
- Snap-on cap – molded elastomer
- Back boxes – copper-free aluminum

Standard finishes:

- Krydon – natural (gray)
- Neoprene – natural
- Elastomer – natural
- Brass – natural
- Leaded red brass – electro-tin-plated
- Aluminum – natural
- Stainless steel – natural

Options:

Description	Suffix
• Special polarity.....	S4
<i>Receptacle interior rotated 22½° to right and plug changed to match</i>	
<i>Available on 4-pole plugs and receptacles only</i>	
• Crimp/solder terminals	T
• Corro-free epoxy powder coat on back boxes and angle adapters	Information available upon request

^AWet and damp locations when used with spring door or snap-on cap; watertight when used with QE threaded cap.

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Ordering information:



NREA

Receptacle assemblies



NRE



Receptacle



Mating
plug



Mating
connector



Motor
plug

Receptacle assembly				Receptacle only	Mating plugs		Cord connectors	Motor plugs
Amperage	Description	Hub size	Cat. # Snap-on cap / spring door [®]	Cat. # Snap-on cap / spring door [®]	Cord dia.	Cat. #	Cat. #	Cat. #
30	2-wire,	3/4"	NRE3322	NR332	0.55 - 0.70"	NPJ3383	NPR3363	NPQ338
	3-pole	1"	NRE3323		0.70 - 0.85"	NPJ3384	NPR3364	
	3-wire,	3/4"	NRE3422	NR342	0.55 - 0.70"	NPJ3483	NPR3463	NPQ348
	4-pole	1"	NRE3423		0.70 - 0.85"	NPJ3484	NPR3464	
60	2-wire,	1"	NRE6323	NR632	0.75 - 1.07"	NPJ6384	NPR6364	NPQ638
	3-pole	1 1/4"	NRE6324		1.07 - 1.35"	NPJ6385	NPR6365	
	3-wire,	1 1/4"	NRE6424	NR642	0.75 - 1.07"	NPJ6484	NPR6464	NPQ648
	4-pole	1 1/2"	NRE6425		1.07 - 1.35"	NPJ6485	NPR6465	
100	2-wire,	1 1/4"	NREA10324 [®]	NR1032	0.93 - 1.21"	NPJ10386	NPR10366	NPQ1038
	3-pole	1 1/2"	NREA10325 [®]		1.21 - 1.50"	NPJ10387	NPR10367	
	3-wire,	1 1/2"	NREA10425 [®]	NR1042	0.93 - 1.21"	NPJ10486	NPR10466	NPQ1048
	4-pole	2"	NREA10426 [®]		1.21 - 1.50"	NPJ10487	NPR10467	

[®] Wet and damp locations when used with spring door or snap-on cap; watertight when used with QE threaded cap.

[®] For use on systems less than 60 Hz, the receptacles, plugs and connectors are for disconnect use only.

[®] Krydon Arktite receptacles are supplied with both a spring door and snap-on cap.

[®] AJ back boxes are square, making it possible to install with hub in several positions.

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Dimensions (in inches):

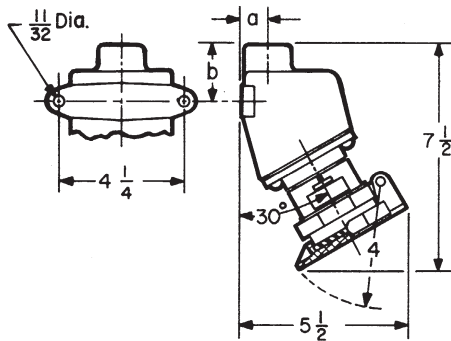


Fig. 1 – 30A receptacle assemblies

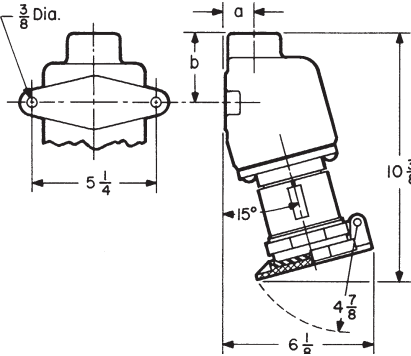


Fig. 2 – 60A receptacle assemblies

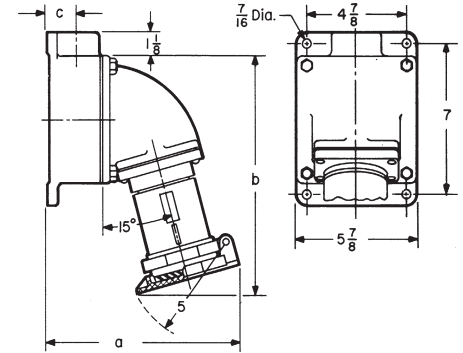


Fig. 3 – 60A and 100A receptacle assemblies

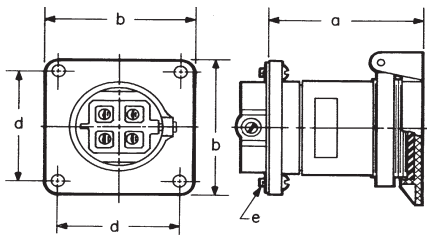


Fig. 4 – spring door housings

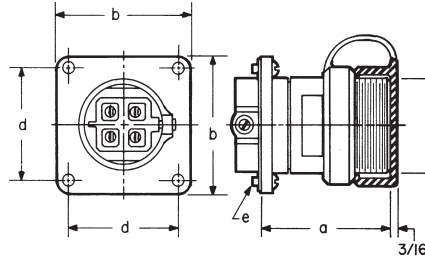


Fig. 5 – housings with cap

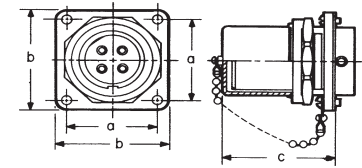


Fig. 6 – NPQ motor plugs

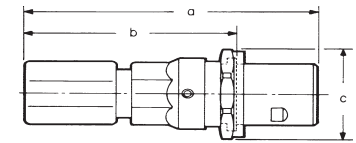


Fig. 7 – NPJ plugs

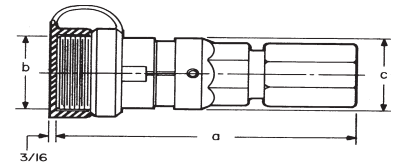


Fig. 8 – NPR cord connectors

NRE 30A & 60A assemblies – Figures 1 & 2

Hub size	Dimension a		Dimension b	
	30A	60A	30A	60A
3/4"	13/16		1 7/8	
1"	15/16	1 5/16	2	2 9/16
1 1/4"		1 7/8		2 5/8
1 1/2"		1 5/8		2 11/16

Housings – Figures 4 & 5

Amperage	No. of poles	Housing	a	b	c	d	e
30	3 or 4	Spring door	3/4	3/8	—	2 3/4	12-24
	3 or 4	Open	2 9/16	3/8	2 9/16	2 3/4	12-24
60	3	Spring door	4 1/2	4/4	—	3 1/2	5/16-18
	4	Spring door	4 1/2	4/4	—	3 1/2	5/16-18
	3	Open	4 1/8	4/4	2 15/16	3 1/2	5/16-18
	4	Open	4 1/8	4/4	3/4	3 1/2	5/16-18
100	3	Spring door	5 3/4	4/4	—	3 1/2	5/16-18
	4	Spring door	5 3/4	4/4	—	3 1/2	5/16-18
	3	Open	5 5/8	4/4	3 3/16	3 1/2	5/16-18
	4	Open	5 5/8	4/4	3/16	3 1/2	5/16-18

NREA 60A & 100A Assemblies – Figure 3

Dim.	60A hub size			100A hub size	
	1"	1 1/4"	1 1/2"	1 1/4"	2"
a	9			9 1/4	9 13/16
b	11			12	12
c	1 15/16			1 9/16	1 9/16

NPQ motor plugs – Figure 6

Amperage / poles	a	b	c
30 / 3 or 4	2 3/4	3 3/8	2 15/16
60 / 3 or 4	3 1/2	4 1/4	4 5/16
100 / 3 or 4	3 1/2	4 1/4	5 1/16

NPJ plugs – Figure 7

Amperage / poles	a	b	c
30 / 3 or 4	8 1/2	7	3 3/16
60 / 3	9 1/2	6 13/16	3 5/8
60 / 4	9 1/2	6 13/16	4
100 / 3	11 1/4	7 3/4	4
100 / 4	11 1/4	7 3/4	4 1/4

NPR cord connectors – Figure 8

Amperage / poles	a	b	c
30 / 3 or 4	8 1/8	2 9/16	2 5/8
60 / 3	9 3/4	2 15/16	2 15/16
60 / 4	9 3/4	3 1/4	2 15/16
100 / 3	11 1/2	3 3/16	3 3/16
100 / 4	11 1/2	3 1/16	3 5/16

For use on systems less than 60 Hz, the receptacles, plugs and connectors are for disconnect use only.