



INTRODUCTION • NEMA 4X METALLIC



VR/VP



ALLEN/SLOT TERMINALS



VSQ



VBQ

600 VAC/250VDC; 50-400 hertz  
 NEMA 3, 4, 4X  
 Class I, Div. 1 & 2, Groups B, C, D;  
 NEMA 7 B, C, D<sup>2</sup>  
 Class I, Zones 1 & 2, IIB+H2, IIA<sup>2</sup>  
 Class II, Div. 1 & 2, Groups F & G;  
 NEMA 9 F, G<sup>2</sup>  
 Class III<sup>2</sup>



FEATURES-SPECIFICATIONS

**NEMA 4X VersaMATE®**

**THE FIRST NEMA 4X RATED LINE OF METALLIC PLUGS & RECEPTACLES.**

VersaMate® metallic pin & sleeve plugs & receptacles are designed for heavy duty industrial use. These devices supply power to both fixed and portable electrical equipment including pumps, generators, welders, vacuums, blowers and similar apparatus.

Suitable for indoor or outdoor use. Applications include the wet, cold, hosedown, hazardous or corrosive areas in such industrial applications as:

- Pulp & Paper Mills
- Electrical Power Plants
- Petrochemical Plants
- Wastewater Treatment
- Marine, Docks, Ports
- Construction Sites
- Breweries
- Refineries
- Chemical Plants
- Grain Facilities
- Textile Manufacturing
- Food Processing Facilities

<sup>1</sup> VersaMate® components are UL classified and interchangeable with other UL 1686-C1 configured devices (when installed in accordance with instructions furnished with device). Assemblies containing components from other manufacturers would have the NEMA type rating of the lowest rated device. 150A models UL interchangeable w/Appleton® Powertite® only.

<sup>2</sup> See product pages for specific ratings.

Arktite® is a registered trademark of Crouse-Hinds®. Powertite® is a registered trademark of Appleton®.

**Standard Materials:**

Copper-free aluminum construction with electrostatically applied epoxy/polyester finish. Contacts are brass with a patented beryllium copper spring tensioner. External screws are 316 stainless steel.

**Features:**

The VersaMate product line includes 30, 60, 150<sup>1</sup>, 100 and 200 Amp plugs, receptacles and connectors with a full range of back boxes. Popular options include reverse service and polarization. The VersaMate line is **FULLY INTERCHANGEABLE<sup>1</sup>** with UL1686 configured and listed devices such as Crouse-Hinds® Arktite® or Appleton® Powertite®. Standard location receptacle bolt hole patterns match competitive back boxes so users can upgrade to VersaMate without changing back boxes in instances where changing the conduit system is difficult.

**Plugs:**

Octagonal style (patented) for a firm and sure grip when connecting or disconnecting is featured on both plug and cable connector bodies. Insulators have high mechanical and dielectric strength and are “Low Arc Tracking.” “Increased Safety” type box terminals with gripper ribs securely clamp around conductors. Funneled conductor entry chambers lead all properly stripped conductors into terminals **simultaneously**. NEMA 4X rating when inserted into VersaMate receptacle and locking ring is tightened. Includes suitability for Type P marine cable.



**Receptacles:**

Exclusive Patented “Breach-Lock” cap serves as either flip lid or screw cover. Receptacle is NEMA 3R with lid snapped shut or NEMA 4X with lid turned shut or when VersaMate plug is inserted and locking ring tightened. Patented notch in cap arm holds cap open for easy plug insertion or maintenance. Patented pin design uses slotted spring clip which avoids excessive wear while providing continuous electrical pin to sleeve contact. VersaMate® receptacles use the same “Increased Safety” terminals and funnel design as VersaMate® plugs.



**Cable Clamping Assembly:**

Plugs and cable connectors are supplied with an exclusive neoprene “Onion Skin” peel-away type grommet. The VersaMate® cable clamp system captures cable with **four grip points** using **only two** tightening screws. Clamp guide assembly provides a firm fit over a wide range of cable diameters. Non-removable set screws prevent clamp guide assembly from backing out. Clamps have smooth contoured shoulder design to prevent snags or damage when moving equipment.



**Back Boxes:**

VersaMate back boxes come in a variety of mounting styles. Exclusive “blind” receptacle mounting holes prevent moisture from entering box via thread cavities. Boxes come with a green grounding screw.



# RECEPTACLES

VERSAMATE® SERIES



## FEATURES / COMPARISONS

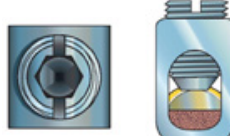


- First NEMA 4X – Still the BEST!
- Exclusive interior gasketing
- Exclusive Terminal Designs
  - » No conductor machining
  - » Allen or Phillips types


- Exclusive Onion-Skin Gasket
  - » Perfect Cable Fit
- Exclusive 4-Point Cable Grip
  - » Uses only 2 Recessed Screws
- Exclusive Breech-Lock Cap
  - » Flip or Screw-On
  - » Notch to hold open

KILLARK BRAND TERMINALS	RECEPTACLE/CONNECTOR PIN CONFIGURATION					
	STYLE 1			STYLE 2		
AMPS	POLES AND WIRES	RECEPTACLE/CONNECTOR CONFIGURATION*	AMPS	POLES AND WIRES	RECEPTACLE/CONNECTOR CONFIGURATION*	
30	2W2P		30	2W3P		
	3W3P			3W4P		
	4W4P			60	2W3P	
60	2W2P		3W4P			
	3W3P		100	2W3P		
4W4P				3W4P		
100	2W2P		150A	3W4P		
	3W3P			200	2W3P	
	4W4P		3W4P			
150A	4W4P					
200	3W3P					
	4W4P					

**TERMINALS**

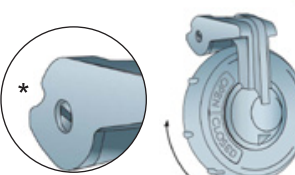


New Allen/slot terminal screws do not contact or machine conductor. Allows higher torque values typical in the oil industry.



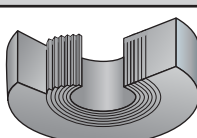
VersaMate original Phillips/slot "Increased Safety" type terminals reduce connection fatigue. Screws do not contact or machine conductor and are under spring tension to reduce loosening and pullout due to vibration.

**CAP**



"Breech-Lock" design serves as both flip lid or screw cover style. Special notch in lid arm holds cover open to ease plug insertion or maintenance.  
\*Slip pencil or screwdriver into notch.

**GASKET**



Exclusive "Onion Skin" style gasket assures a tight seal around cable. Skin layers are removed from a single gasket to adjust for various cable diameters.

### REVERSE SERVICE: S39

Add suffix **S39** for factory Reverse Service of receptacles, plugs or connectors. Receptacles or connectors are assembled with plug interiors while plugs are assembled with receptacle interiors. For applications where the plug is energized (i.e. from a generator) to feed a non-energized receptacle. Prevents easy contact with energized exposed pins. This conversion can be performed in the field with a complementary plug and receptacle (30A to 150A devices shown on pages PR5-PR8). 200A Amp devices shown on page PR9 are a factory-only option. Reverse service is not for hazardous locations.



Typical Application

### POLARIZED OPTION: S37

Add suffix **S37** for special polarity.

Can prevent connection between mismatched voltages or frequencies in areas where devices of the same amperage, poles and grounding style are used. Receptacle or connector interiors are rotated 22-1/2° to the right; plug is rotated opposite to match. This is a factory only option.



Standard



S37 Option

# RECEPTACLES

VERSAMATE® SERIES



## VBQ BREAKER PROTECTED



Internal Lock-Off provision for maintenance when no hazardous materials are present

Class I, Div. 1 & 2, Groups B, C, D  
 Class I, Zones I & 2, Groups IIB+H<sub>2</sub>, IIA  
 Class II, Div. 1 & 2, Groups F & G  
 Class III  
 NEMA 3, 4, 4X, 7 (B, C, D), 9 (F, G)

UL cUL File No. E184637

### FEATURES-SPECIFICATIONS

VBQ RECEPTACLES												
RECEPTACLE	CIRCUIT	BREAKER	CATALOG NUMBER				PLUG					
			SQUARE D FAL (480 VAC MAX.)	SQUARE D FHL (600 VAC MAX.)	CUTLER-HAMMER EHD (480 VAC MAX.)	CUTLER-HAMMER FD (600 VAC MAX.)	ORIG.	AT				
30	2W3P	20	VBQ3023SN20	VBQ3023SH20	VBQ3023CN20	VBQ3023CH20	VP3385	VP3023				
		30	VBQ3023SN30	VBQ3023SH30	VBQ3023CN30	VBQ3023CH30						
		40	VBQ3023SN40	VBQ3023SH40	VBQ3023CN40	VBQ3023CH40						
		50	VBQ3023SN50	VBQ3023SH50	VBQ3023CN50	VBQ3023CH50						
	3W4P	20	VBQ3034SN20	VBQ3034SH20	VBQ3034CN20	VBQ3034CH20	VP3485	VP3034				
		30	VBQ3034SN30	VBQ3034SH30	VBQ3034CN30	VBQ3034CH30						
		40	VBQ3034SN40	VBQ3034SH40	VBQ3034CN40	VBQ3034CH40						
		50	VBQ3034SN50	VBQ3034SH50	VBQ3034CN50	VBQ3034CH50						
60	2W3P	50	VBQ6023SN50	VBQ6023SH50	VBQ6023CN50	VBQ6023CH50	VP6385	VP6023				
		60	VBQ6023SN60	VBQ6023SH60	VBQ6023CN60	VBQ6023CH60						
		70	VBQ6023SN70	VBQ6023SH70	VBQ6023CN70	VBQ6023CH70						
		90	VBQ6023SN90	VBQ6023SH90	VBQ6023CN90	VBQ6023CH90						
		100	VBQ6023SN100	VBQ6023SH100	VBQ6023CN100	VBQ6023CH100						
	3W4P	50	VBQ6034SN50	VBQ6034SH50	VBQ6034CN50	VBQ6034CH50	VP6485	VP6034				
		60	VBQ6034SN60	VBQ6034SH60	VBQ6034CN60	VBQ6034CH60						
		70	VBQ6034SN70	VBQ6034SH70	VBQ6034CN70	VBQ6034CH70						
		90	VBQ6034SN90	VBQ6034SH90	VBQ6034CN90	VBQ6034CH90						
		100	VBQ6034SN100	VBQ6034SH100	VBQ6034CN100	VBQ6034CH100						
		100	2W3P	50	VBQ1023SN50	VBQ1023SH50			VBQ1023CN50	VBQ1023CH50	VP10387	VP1023
				70	VBQ1023SN70	VBQ1023SH70			VBQ1023CN70	VBQ1023CH70		
90	VBQ1023SN90			VBQ1023SH90	VBQ1023CN90	VBQ1023CH90						
100	VBQ1023SN100			VBQ1023SH100	VBQ1023CN100	VBQ1023CH100						
3W4P	50		VBQ1034SN50	VBQ1034SH50	VBQ1034CN50	VBQ1034CH50	VP10487	VP1034				
	70		VBQ1034SN70	VBQ1034SH70	VBQ1034CN70	VBQ1034CH70						
	90		VBQ1034SN90	VBQ1034SH90	VBQ1034CN90	VBQ1034CH90						
	100		VBQ1034SN100	VBQ1034SH100	VBQ1034CN100	VBQ1034CH100						

CIRCUIT BREAKER INTERRUPTING RATINGS	208/240 VAC	480 VAC	600 VAC	250 VDC†
Square D FAL	25,000	18,000	—	10,000
Square D FHL	65,000	25,000	18,000	10,000
Cutler-Hammer EHD	18,000	14,000	—	10,000
Cutler-Hammer FD	65,000	25,000	18,000	10,000

Consult Breaker Manufacturer literature for Horsepower Ratings.  
 † DC ratings apply to substantially non-inductive circuits.

CIRCUIT BREAKER	WIRE RANGE
Square D	To 30 Amp #14-4 cu.; 35-100 Amp #14-1/0 cu.
Cutler-Hammer	To 20 Amp #14-10 cu.; 30-100 Amp #14-1/0 cu.

MODIFICATIONS ①	
CATALOG NUMBER	DESCRIPTION
S37	Polarization for receptacles & plugs
SU10	Drain
SU11	Breather
SU3	Drain and Breather (CSA Groups C & D)

Contact factory for VBQ with ground fault option

① See page PR3 and price sheet for more information on these options.