## INSTALLATION, OPERATION & MAINTENANCE DATA FORM No. K1381 VersaMATE®, AT type 30 AMP SERIES: PIN & SLEEVE PLUGS, RECEPTACLES & CONNECTORS

"VP" PLUGS, "VR" RECEPTACLES & "VPR" CABLE CONNECTORS comply with UL 1686 dimensional requirements and are interchangeable with other UL 1686 compatible devices. "VP" PLUGS can be used in HAZARDOUS LOCATIONS, CLASS I, GROUPS B, C, D, CLASS II, GROUPS F† & G. Enclosure Types 3, 4 & 4X (\*see Chart 1).

All Installations Must Comply With Applicable Local, National Electric Codes and/or Canadian Electrical Code.

## **APPLICATIONS**

- Designed to apply secondary power to both fixed and portable electrical equipment.
- Designed to provide for quick disconnect from the power source.
- Designed for use in locations where weatherproof, oil tight & hosedown watertight enclosures and devices are required.

## **FEATURES**

Octagonal Body Style. The octagonal shape Plug and Cable Connector bodies provide for a firm grip when separating.

Interchangeable. VersaMATE® Devices are intermateable with other UL Rated 1686 devices (\*see Chart 2).

Locking Tab. The locking tab on the plug and cable connector bodies provides for secure assembly and disassembly as it snaps the plug shrouds and cable connector noses into place. Plug Locking Ring. Neoprene gasketed plugs thread onto receptacle & cable connector with locking ring providing a Type 3, 4 & 4X union.

Type 3, 4 & 4X Rated. The exclusive patent pending breech lock design provides sealing ability for the lift lid on the receptacle and cable connector providing a Type 3, 4 & 4X rating when the lift lid is in the closed position. Devices are gasketed to provide a weatherproof, oil tight & hosedown watertight seal when mated with devices having the same type

Positive Cable Clamp. Plugs & cable connectors supplied with a neoprene onion skin grommet and clamp guide assembly provide a firm fit over a wide range of cable diameters. Captive locking set screw prevents clamp guide assembly from backing out.

Insulators & Terminals. Insulators provide high mechanical and dielectric strength with low "arc tracking". Designed with "Allen screw" type box terminals providing secure clamping around conductors. Funnel chambers designed to accommodate easy insertion of all conductors at one time. The exposed portion of the conductors will be within the funnels when properly stripped (see Figure 4).

Two Grounding Styles. Style 1 plugs, receptacles & cable connectors ground through shell only. Copper grounding jumpers in Style 2 plugs, receptacles & cable connectors ground through shell and extra pole.

Reverse Service. Two screws secure the insulator assembly in the devices. Removing the screws, ground screw & standoff permits easy "field" conversion to reverse service.

† To prevent ignition of hazardous atmospheres do not use in Class II, Group F locations that contain electrically conductive dusts.

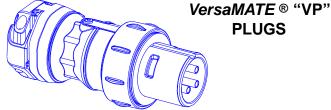
#### **ELECTRICAL RATING**

Maximum Voltages: 600 VAC @ 50-400Hz, 250VDC; Maximum continuous current: 30 Amperes.

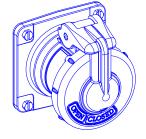
Horsepower: See Catalog Data or contact factory.

General View of the 30 Amp Series Pin & Sleeve Type Plugs, Receptacles & Cable Connectors

FIGURE 1



**PLUGS** 



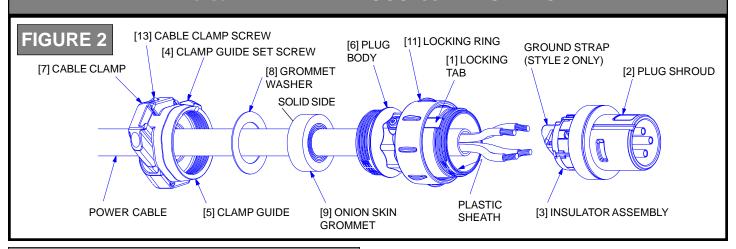
VersaMATE® "VR" RECEPTACLES

VersaMATE® "VPR" CONNECTORS

Positive Ground. Grounding straps assure maintained ground contact. Longer ground pin terminal in Style 2 receptacle "makes first, breaks last".

Arcing Confined. Contacts are made or broken in insulator chambers. In emergency, plugs can be withdrawn under full rated loads. Positive polarization prevents mismatching plugs. Positive Contact. Brass contacts have integral patented springs for positive maintained electrical contact.

## INSTALLATION INSTRUCTIONS FOR VersaMATE® "VP" PLUGS: 30 AMP SERIES

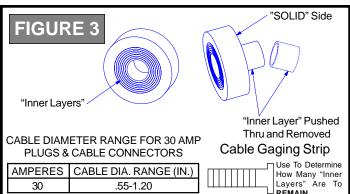


## **WARNING**

Electrical power supply **MUST BE OFF** before and during installation and maintenance. **DISCONNECT** primary power source and **LOCK OUT**. Installation and maintenance procedure must be performed by a trained and competent electrician.

## Always verify that the devices' ampere & voltage rating, style & number of poles are suitable in the area of use.

- Disassemble plug as shown in FIGURE 2. Loosen clamp guide setscrew [4] and turn clamp guide assembly [5] to remove from plug body [6]. Remove locking ring [11]. Press down on locking tab [1] with a screwdriver (see nameplate) and turn until notch on inside rim of shroud [2] stops at screwdriver (or simply remove the locking tab and screw). Remove screwdriver and then finish removing shroud assembly. It is not necessary to separate the shroud & insulator assembly [3]. Do not disassemble the insulator assembly.
- 2 Reference TABLE "A" to strip the cable jacket and individual wires. Refer to National Electrical Code Table 400-5 or Canadian Electrical Code Table 12 when selecting the conductor size.



### **CAUTION**

Use cable with diameters within the specified range given in FIGURE 3. Failure to do so may result in overstressed wire terminations which could cause the conductors to pull out of the box terminals and cause serious or fatal personal injury and/or equipment damage.

- 3 Slide clamp guide assembly [5], with cable clamp [7] properly assembled, and the grommet washer [8] over the power cable being used.
- 4 Use the cable gaging strip provided to determine how many "inner layers" of the onion skin grommet [9] are to **REMAIN** or simply remove the "inner layers" until the grommet slips over the power cable. Remove the "inner layers" as needed from the grommet, **one layer at a time**, by pushing through to solid side and tearing off. See FIGURE 3.
- 6 Place the onion skin grommet [9] over the power cable with the "SOLID" side facing the clamp guide assembly and slide plug body [6] over power cable.
- 6 Loosen the box terminal screws [10] (see FIGURE 4) in the insulator assembly [3] without completely removing the screws. Insert conductors into the proper box terminals according to the established facility wiring pattern. Tighten box terminal screws [10] to 30 in.-lbs. torque. Conductors must be fully inserted into the box terminals and, if properly stripped (see Table A), the conductor insulation should be well within the funnel of the insulator assembly [3].
- 7 Slip locking ring [11] over upper part of plug body [6]. Screw plug body into shroud [2] & insulator assembly [3] until the locking tab [1] snaps into place.
- 8 Slide onion skin grommet [9] down power cable into plug body [6]. Force power cable into plug body to provide a minimum 1/8" strain relief in the wire between clamp and insulator. Place grommet washer [8] in clamp guide assembly [5]. Screw clamp guide onto plug body. Tighten clamp guide set screw [4] to 10 to 15 in.-lbs. of torque.
- **9** Tighten cable clamp screws [13] around power cable to 25 in.-lbs. minimum torque, alternating sides as needed to prevent binding.

## **ELECTRICAL TEST BEFORE ENERGIZING**

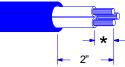
Do not connect to power before conducting the following electrical tests:

- Test continuity of wiring and assembly to verify correct polarity, phasing and grounding connections.
- Measure insulation resistance to be sure the system does not have any short circuits or unwanted grounds.

**CAUTION:** Use 75°C rated conductors (minimum). DO NOT cut into or damage the individual conductor insulation when removing the outer jacket. DO NOT cut or damage the conductors when stripping the individual wire insulation.

## TABLE A STRIPP

## TERMINAL WIRE RANGE AND STRIPPING GUIDE



\* Strip gage on insulator: Small gage: #10-#8 (½") Large gage: #6 (¾")

TERMINAL WIRE SIZE AND ELECTRICAL RATINGS PLUG AND CABLE CONNECTOR RATINGS

| AMPERES    | MAX. VOLTAGE                 | WIRE RANGE        |
|------------|------------------------------|-------------------|
| 30         | 600 VAC @ 50-400 Hz, 250 VDC | BUILDING #10-#6   |
| Data d fan | WHAT TYPE DOC MY COCO CTO    | EYTRA ELEY #10_#8 |

Rated for use with TYPE P, G, W, S, SO, STO

portable cords or equivalent, with COPPER
conductors only, of the sizes listed (75°C rated (minimum)).

### NOTE

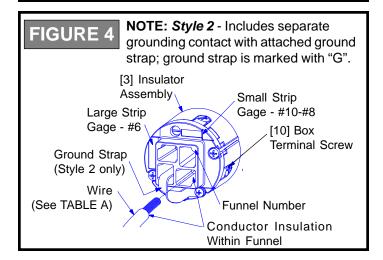
In Hazardous Locations, PLUGS are to be used with Type P, G, W, S, SO, STO or equivalent "extra hard usage" portable cable with copper conductors, per National Electrical Code, Articles 400, 501-11 & 502-12 and/or Canadian Electrical Code, Sections 4-010, 18-120, 18-172, 18-218 & 18-276.

## **WARNING - POLARITY**

A wire pattern **MUST** be established so that the same color wire is put into the same identified funnel in all plugs, receptacles & cable connectors in the area of use. Funnels are distinctly identified on the rear of the insulator. In style 2 units only, the funnel with the conductor strap marked with a "G" is for ground conductors. This requirement provides correct polarity for the area of use and reduces possible cause of serious or fatal personal injury and/or equipment damage.

## CAUTION

Receptacles connected to circuits having different voltages, or types of current (AC or DC) on the same premises shall be of such design that the attachment plugs



## FIGURE 5 GROUNDING STYLES STYLE 1 - Shell Only Grounding Portable Cable 4-Conductor **PLUG** RECEPTACLE Grounded Equipment thru conduit ground system connected to plug shroud Portable Cable 4-Conductor CONNECTOR

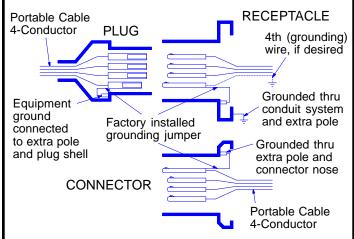
**Style 1 Plug** - Equipment grounding conductor is wired directly to the ground terminal which is connected to the ground stand-off and shroud. This, in turn, grounds the entire plug assembly housing. All contacts are "current carrying".

Grounded thru

connector nose

Style 1 Receptacle - Two ground straps engage the grounded plug shroud on plug insertion (plug shroud makes contact with receptacle ground straps before "line" and "load" poles engage). Grounding path is maintained until after current-carrying contacts disengage. All contacts are "current carrying". The receptacle is grounded by virtue of its being an integral part of the conduit system.

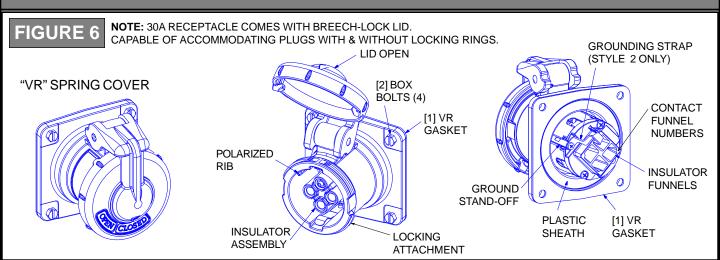
#### STYLE 2 - Shell and Extra Pole Ground



**Style 2 Plug** - Equipment grounding conductor is wired to the extra grounding pole terminal which provides a parallel ground circuit thru the extra ground pole and plug shroud. The ground stand-off and shroud are grounded to a copper alloy ground jumper installed on the extra ground pole. This, in turn, grounds the entire plug assembly housing.

**Style 2 Receptacle** - Two ground straps engage the grounded plug shroud on plug insertion (shell grounding). A copper alloy ground jumper installed on the extra ground pole is screwed on the ground stand-off and grounded to the receptacle body (extra pole grounding). The longer grounding pole "makes first and breaks last".

## INSTALLATION INSTRUCTIONS FOR VersaMATE® "VR" RECEPTACLES: 30 AMP SERIES



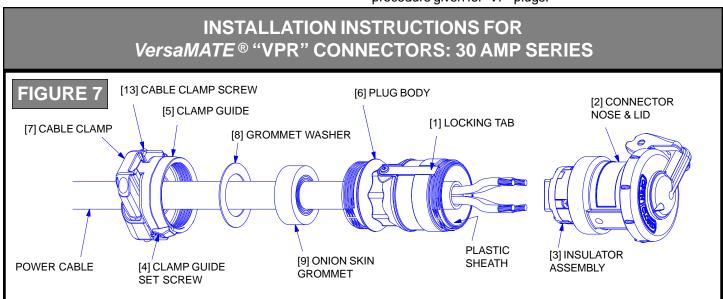
Always verify that the devices' ampere & voltage rating, style & number of poles are suitable in the area of use.

The 30 Amp Spring Lid Receptacles are threaded to accept the locking ring of the 30 Amp "VP" Style Plugs. This forms a Type 3, 4 & 4X fit when plug is in use and prevents plug fallout. When plug is withdrawn, the lid will spring shut. Turn the lid clockwise to closed position to assure a weatherproof, oil tight and hosedown watertight fit.

1 Follow instructions "2" & "6" given for "VP" plugs.

2 Mount receptacle, with "VR" Gasket [1] applied, to previously installed back box using box bolts [2] supplied and torque to a minimum of 30 in.-lbs.; to a maximum of 40 in.-lbs. At least one mounting screw must provide electrical continuity between receptacle housing and back box. There must be a tight seal between the receptacle housing and back box to assure a weatherproof, oil tight and hosedown watertight fit. **NOTE:** The included star washers may be used under the bolt heads, as necessary, to assist in achieving ground continuity.

**3** Follow the **ELECTRICAL TEST BEFORE ENERGIZING** procedure given for "VP" plugs.



Always verify that the devices' ampere & voltage rating, style & number of poles are suitable in the area of use.

The 30 Amp Spring Lid Cable Connectors have the same features as the 30 Amp Spring Lid Receptacles. The Cable Connectors are for use with "VP" 30 Amp Plugs.

① Disassemble Cable Connector as shown in FIGURE 7. Press down on locking tab [1] with a screwdriver and turn to remove connector nose [2] & insulator assembly [3]. It is not

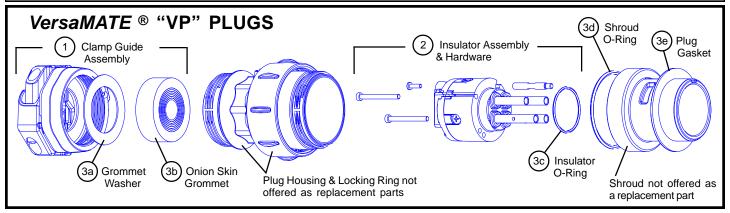
necessary to separate the connector & insulator assembly. Do not disassemble the insulator assembly. Loosen clamp guide set screw [4] and turn clamp guide assembly [5] to remove from connector body [6] guide.

2 Follow instructions "2", "3", "4", "5" & "6" given for "VP" plugs.

3 Screw connector nose [2] & insulator assembly [3] onto connector body [6] until the locking tab [1] snaps into place.

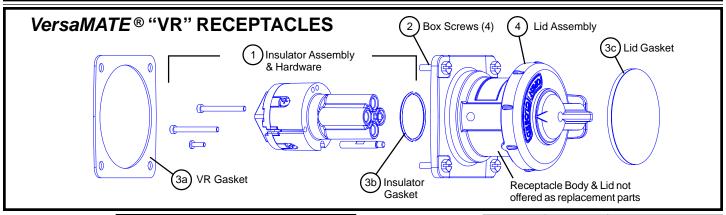
4 Follow instructions "8", "9" & ELECTRICAL TEST BEFORE ENERGIZING procedure given for "VP" plugs.

# REPLACEMENT PARTS FOR VersaMATE ® 30 AMP SERIES "VP" PLUGS, "VR" RECEPTACLES & "VPR" CABLE CONNECTORS



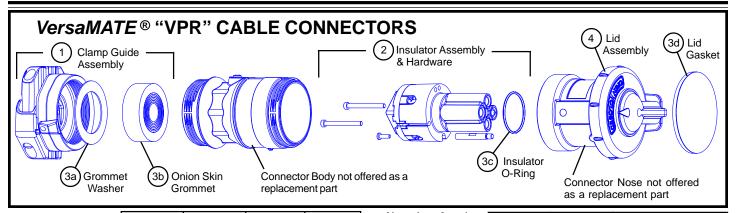
|       |             | ITEM 1      | ITEM 2    | *ITEM 3  |
|-------|-------------|-------------|-----------|----------|
|       |             | CLAMP GUIDE | INSULATOR | GASKETS  |
| STYLE | DESCRIPTION | ASSEMBLY    | ASSEMBLY  | & WASHER |
| 1     | 2W, 2P      |             | RVP30222  |          |
| 1     | 3W, 3P      | RVP31       | RVP30332  | RVPG33   |
| 1     | 4W, 4P      |             | RVP30442  |          |

|                    | tem 3 gaskets | ITEM 1      | ITEM 2    | *ITEM 3  |
|--------------------|---------------|-------------|-----------|----------|
| are sold as a kit. |               | CLAMP GUIDE | INSULATOR | GASKETS  |
| STYLE              | DESCRIPTION   | ASSEMBLY    | ASSEMBLY  | & WASHER |
| 2                  | 2W, 3P        | RVP31       | RVP30232  | RVPG33   |
| 2                  | 3W, 4P        | IXVI 31     | RVP30342  | 100 000  |



|       |             | ITEM 1    | ITEM2            | *ITEM3  | ITEM 4   |
|-------|-------------|-----------|------------------|---------|----------|
|       |             | INSULATOR | <b>BOX BOLTS</b> | GASKETS | LID      |
| STYLE | DESCRIPTION | ASSEMBLY  | QTY. (4)         | GASKETS | ASSEMBLY |
| 1     | 2W, 2P      | RVR30222  |                  |         |          |
| 1     | 3W, 3P      | RVR30332  | RVRB31           | RVRG33  | RVRL34   |
| 1     | 4W, 4P      | RVR30442  |                  |         |          |

| * Note: Item 3 gaskets |                    |                  | ITEM 2    | *ITEM3  | ITEM 4   |
|------------------------|--------------------|------------------|-----------|---------|----------|
| are sold as a kit.     |                    | <b>INSULATOR</b> | BOX BOLTS | CACKETO | LID      |
| STYLE                  | <b>DESCRIPTION</b> | <b>ASSEMBLY</b>  | QTY. (4)  | GASKETS | ASSEMBLY |
| 2                      | 2W, 3P             | RVR30232         | RVRB31    | RVRG33  | RVRL34   |
| 2                      | 3W, 4P             | RVR30342         | I COUNTY  | IVINGSS | NVNL34   |



|       |             | ITEM 1     | ITEM2     | *ITEM3   | ITEM 4          |
|-------|-------------|------------|-----------|----------|-----------------|
|       |             | CLAMPGUIDE | INSULATOR | GASKETS  | LID             |
| STYLE | DESCRIPTION | ASSEMBLY   | ASSEMBLY  | & WASHER | <b>ASSEMBLY</b> |
| 1     | 2W, 2P      |            | RVR30222  |          |                 |
| 1     | 3W, 3P      | RVP31      | RVR30332  | RVPRG33  | RVRL34          |
| 1     | 4W, 4P      |            | RVR30442  |          |                 |
|       |             |            |           |          |                 |

| * Note: Item 3 gaskets |                    | ITEM1      | ITEM 2    | *ITEM3   | ITEM4    |
|------------------------|--------------------|------------|-----------|----------|----------|
| are sold as a kit.     |                    | CLAMPGUIDE | INSULATOR | GASKETS  | LID      |
| STYLE                  | <b>DESCRIPTION</b> | ASSEMBLY   | ASSEMBLY  | & WASHER | ASSEMBLY |
| 2                      | 2W, 3P             | RVP31      | RVR30232  | DV/DDC33 | RVRL34   |
| 2                      | 3W, 4P             | KVP31      | RVR30342  | KVFKG33  |          |

## REVERSE SERVICE INSTRUCTIONS FOR VersaMATE® DEVICES: 30 AMP SERIES

- 1 Remove the screws mounting the insulator assembly to the shroud, receptacle and/or connector nose.
- 2 Remove the #4-40 screw from the ground stand-off. (Style 1 shrouds & connector noses ground terminal & bracket will be removed with the screw).
- 3 Separate the insulator from the selected parts (Style 2 only also remove the stand-off).
- (Style 2 only replace the stand-off into the mating parts.) Replace the insulator into the mating parts while aligning the stand-off and holes.
- 5 Replace insulator mounting screws.

6 Replace the #4-40 screw (Style 1 shrouds & connector noses - ground terminal & bracket will also need to be replaced; Style 2 devices - mount the ground straps to ground stand-off with screw).

### **ELECTRICAL TEST BEFORE ENERGIZING**

Do not connect to power before conducting the following electrical tests:

- Test continuity of wiring and assembly to verify correct polarity, phasing and grounding connections.
- Measure insulation resistance to be sure the system does not have any short circuits or unwanted grounds.

# CHART 1 - PLUG INTERMATEABILITY WITH HAZARDOUS LOCATION ENCLOSURES: 30 AMP SERIES

"VP" PLUGS for use in HAZARDOUS LOCATIONS, CLASS I, Div. 1 & 2 GROUPS B, C, D CLASS II, Div. 1 & 2 GROUPS F† & G & Class III.

| KILLARK  | 2W, 3P | 3W, 4P |
|--|--------|--------|
| Contact Factory  |        |        |
|  |        |        |
| CROUSE-HINDS   |        |        |
| FSQC Series<br>CL. I, Div. 1 & 2, GR. B, C, D<br>CL. II, Div. 1 & 2, GR. F†, G, CL. III. | VP3023 | VP3034 |
| APPLETON   |        |        |
| JBRB Series<br>CL. I, Div. 1 & 2, GR. B, C, D<br>CL. II, Div. 1 & 2, GR. F†, G, CL. III. | VP3023 | VP3034 |
| JBR Series<br>CL. I, Div. 1 & 2, GR. C, D<br>CL. II, Div. 1 & 2, GR. F†, G, CL. III.     | VP3023 | VP3034 |
| J2BR Series<br>CL. II, Div. 1 & 2, GR. F†, G.  | VP3023 | VP3034 |
| DBR Series<br>CL. II, Div. 1 & 2, GR. F†, G, CL. III.                                    | VP3023 | VP3034 |
| EBRH Series<br>CL. I, Div. 1 & 2, GR. B, C, D<br>CL. II, Div. 1 & 2, GR. F†, G, CL. III. | VP3023 | VP3034 |
| EBR Series<br>CL. I, Div. 1 & 2, GR. C, D<br>CL. II, Div. 1 & 2, GR. F†, G, CL. III.     | VP3023 | VP3034 |

† CAUTION: To reduce the risk of ignition of hazardous atmospheres, do not use plugs or receptacles in CLASS II, GROUP F locations that contain electrically conductive dusts (most coal dusts are *not* electrically conductive).

# CHART 1A - INTERMATEABILITY FOR STANDARD LOCATION PLUGS, RECEPTACLES AND CABLE CONNECTORS: 30 AMP SERIES

| KILLARK          | 2W2P               | 3W3P               | 4W4P               | 2W3P               | 3W4P               |
|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| PLUGS            | VP3022             | VP3033             | VP3044             | VP3023             | VP3034             |
| RECEPTACLES      | VR3022             | VR3033             | VR3044             | VR3023             | VR3034             |
| CABLE CONNECTORS | VPR3022            | VPR3033            | VPR3044            | VPR3023            | VPR3034            |
|                  |                    |                    |                    |                    |                    |
| CROUSE-HINDS     |                    |                    |                    |                    |                    |
| PLUGS            | APJ3275            | APJ3375            | APJ3475            | APJ3385<br>NPJ3383 | APJ3485<br>NPJ3483 |
|                  |                    |                    |                    | NPJ3384            | NPJ3484            |
| RECEPTACLES      | AR321<br>AR323     | AR331<br>AR333     | AR341<br>AR343     | AR332<br>AR334     | AR342<br>AR344     |
|                  | AR327              | AR337              | AR347              | AR338<br>NR332     | AR348<br>NR342     |
| CABLE CONNECTORS | APR3253            | APR3353            | APR3453            | APR3363            | APR3463            |
| CABLE CONNECTORS | APR3255            | APR3355<br>APR3355 | APR3455            | APR3365            | APR3465            |
|                  |                    |                    |                    | NPR3363<br>NPR3364 | APR3463<br>APR3464 |
|                  |                    |                    |                    |                    |                    |
| APPLETON         |                    |                    |                    |                    |                    |
|                  |                    |                    |                    |                    |                    |
| PLUGS            | ACP3022BC          | ACP3033BC          | ACP3044BC          | ACP3023BC          | ACP3034BC          |
| RECEPTACLES      | ADR3022<br>ACR3022 | ADR3033<br>ACR3033 | ADR3044<br>ACR3044 | ADR3023<br>ACR3023 | ADR3034<br>ACR3034 |
| CABLE CONNECTORS | ARC3022BC          | ARC3033BC          | ARC3044BC          | ARC3023BC          | ARC3034BC          |

| CHART        | 1B - INTERMATEABILI<br>BACK BOXES: | TY FOR STANDAR<br>30 AMP SERIES | RD LOCATION   |
|--------------|------------------------------------|---------------------------------|---------------|
| KILLARK      | VRE13 ½" HUB                       | VRC13 ½" HUBS                   | VRD13 ½" HUBS |
|              | VRE23 ¾" HUB                       | VRC23 ¾" HUBS                   | VRD23 ¾" HUBS |
|              | VRE33 1" HUB                       | VRC33 1" HUBS                   | VRD33 1" HUBS |
| CROUSE-HINDS | ARE13 ½" HUB                       | ARRC13 ½" HUB                   | ARD13 ½" HUB  |
|              | ARE23 ¾" HUB                       | ARRC23 ¾" HUB                   | ARD23 ¾" HUB  |
|              | ARE33 1" HUB                       | ARRC33 1" HUB                   | ARD33 1" HUB  |
| APPLETON     | AEE13 ½" HUB                       | AERC13 ½" HUB                   | -             |
|              | AEE23 ¾" HUB                       | AERC23 ¾" HUB                   | -             |
|              | AEE33 1" HUB                       | AERC33 1" HUB                   | -             |

Recommendations contained in this document are based on technical information that Killark believes to be reliable. All the information and advice contained in these documents is intended for use by persons having been trained and possessing the requisite skill and know-how and to be used by such persons only at their own discretion and risk. The nature of these instructions is informative only and does not cover all of the details, variations or combinations in which this equipment may be used; its storage, delivery, installation, check-out, safe operation and maintenance.

Since the installation, maintenance and use of the product are outside of the direct surveillance and control of Killark, the purchaser and/or user assumes all risk and liability whatsoever in regards to its use and suitability for his or her intended application.

## **MAINTENANCE**

### **MAINTENANCE**

Electrical and mechanical inspection of all components must be performed regularly. It is recommended that inspection be performed a minimum of once a year.

- Inspect all contact wire box terminals for tightness (Retorque). Discoloration due to excessive heat is an indicator of possible problems and should be thoroughly investigated and repaired as necessary.
- Check grounding and bonding for correct installation and secure connection (Retorque).

## WARNING

Electrical power supply **MUST BE OFF** before and during installation and maintenance. **DISCONNECT** primary power source and **LOCK OUT**. Installation and maintenance procedure must be performed by a trained and competent electrician.

## **WARNING**

If any parts of the plug, receptacle or cable connector appear to be missing, broken or show signs of damage;

## **DISCONTINUE USE IMMEDIATELY!**

**Do not modify these devices in any way.** Replace with the proper replacement part(s) supplied by Killark before continuing service. Failure to do so could cause serious or fatal personal injury and/or equipment damage.

- Check gaskets for deterioration and replace if necessary.
- Clean exterior surfaces making sure nameplates remain legible.
- Inspect clamp guide assembly and cable grip tightness to ensure proper cable gripping.
- Torque all screws as described in instructions before reusing device.
- Inspect housing parts and replace those which are broken or excessively worn.
- Check contacts for signs of excessive arcing or burning and replace if necessary.
- Check **receptacle thread** used for plug locking ring for proper lubrication. Apply Killark's "LUB-G" type lubrication or equivalent to thread surfaces as required to prevent galling between the receptacle and locking ring threads.

In addition to these required maintenance procedures, we recommend an Electrical Preventive Maintenance Program as described in the National Fire Protection Association Bulletin NFPA No. 70B.

#### **ELECTRICAL RATING**

Maximum Voltages: 600 VAC @ 50-400Hz, 250VDC;

Maximum continuous current: 30 Amperes.

Horsepower: See Catalog Data or contact factory.

### MAINTENANCE MANAGER

Please record the following information for your records.

| Complete Catalog No  |
|----------------------|
| Installed By         |
| Date of Installation |

## RECOMMENDED YEARLY INSPECTION

 Date
 ; Performed By

 Date
 ; Performed By

 Date
 ; Performed By

 Date
 ; Performed By

**RETAIN THIS INSTRUCTION SHEET** 

HUBBELL INCORPORATED (Delaware) 2112 Fenton Logistics Park Blvd Fenton, Missouri 63026 USA