The Type PKR is a compact, easily installed by-pass disconnect switch for by-passing and disconnecting pole mounted regulators or all circuit reclosers.

GREATER SAFETY AND CONVENIENCE:
1. The PKR allows hooksticks to be used to de-energize all circuits to the regulator or recloser.
2. Operation of the PKR is fast and easy, requiring much less time than hot line clamps.
3. Switch by-pass eliminates the possibility of personnel injury from closing a by-pass fuse on a high current fault after recloser lockout.
4. Switches provide greater thermal capacity than hot line clamps.

TERMINALS:
Line terminals are tinned, flat pads with NEMA Standard two hole drilling. Clamp type terminals for aluminum or copper can be supplied at additional cost. Integral, clamp type hinge end terminals are tinned and accommodate a wide range of copper or aluminum conductors.

SIMPLICITY OF OPERATION:
Regulators may be live line tested in place without disturbing the line voltage. With the by-pass switch blade closed and one isolating switch blade closed and one open, the contact making voltmeter may be manually run through its paces without having the regulating winding connected to the system. This is not good practice with "one pull" regulator by-pass switches, since it involves a partially open switch position.

FULL VALUE BREAK DISTANCE PROVIDED:
The PKR provides a quickly operable line sectionalizing point with air gap insulation at each recloser or regulator. Break distance across the open gap of the by-pass switch is "full value" as compared to the 10 percent value supplied on the conventional regulator by-pass switch.

BIL COORDINATION:
The PKR is available in BIL's of 95 kV, 110 kV, 125 kV and 150 kV. These insulation levels coordinate with distribution class oil circuit reclosers, cutouts, and other distribution apparatus.

The crossarm-mounted PKR's can be used on either single or double crossarms, and a mounting strap and bolts are supplied. Pole-mounted PKR's are supplied with welded, galvanized steel mounting brackets, which can be quickly attached to wooden poles. No extra hardware, such as additional crossarms or brackets, are needed to install either mounting style.
Line terminals are tinned, flat pads with NEMA 2-hole drilling.

2-1/4" bolt-circle insulators. 7.8 and 15 kV models use centerbolt insulators.

Isolating switches have 90° open position blade stops. The by-pass switch blade opens 180°.

Switch blades are bus copper bars, trussed for maximum resistance to side thrusts.

Belleville springwashers provide high contact pressure on both the hinge and the jaw.

Blades are positive-latch closed. Pry-out action of the latch mechanism makes opening with a hookstick easy.

Isolating switches have integral, clamp terminals, which are tinned for both Cu and Al conductors.

FIGURE 3  PKR 27 kV, 600 amp., 150 kV BIL

FIGURE 4
Single phase regulator installation

FIGURE 5
REGULATOR
Three phase installation
FIGURE 6
OIL CIRCUIT RECLOSER
Three phase installation

FIGURE 7
OIL CIRCUIT RECLOSER
Single phase installation
The crossarm mounted units on a three-phase installation are supplied left hand and right hand. The classification of the unit is determined by facing the switch in the position shown above. The left hand unit has the jaw end of the by-pass switch to the observer's left; the right hand unit has the jaw end of the by-pass switch on the right.

Field conversion from one hand to the other can be accomplished by exchanging jaw and hinge end castings.

### Table of Conductor Sizes for Integral Terminals

<table>
<thead>
<tr>
<th>SWITCH RATING</th>
<th>200 Amps</th>
<th>400 Amps</th>
<th>600 Amps</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>#6-4/0 Cu.</td>
<td>#2-350 MCM Cu.</td>
<td>#4/0-750 MCM Cu.</td>
</tr>
<tr>
<td>Aluminum</td>
<td>#8-3/0 ACSR</td>
<td>#3-300 MCM ACSR</td>
<td>#3/0-666 MCM ACSR</td>
</tr>
</tbody>
</table>

### Ratings

<table>
<thead>
<tr>
<th>VOLT. Nom. kV</th>
<th>CURRENT - Amp.</th>
<th>INSUL. BIL</th>
<th>CATALOG NUMBERS</th>
<th>DIMENSIONS inches meters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cont. Mon.</td>
<td></td>
<td>Pole Mounted</td>
<td>Left Hand</td>
</tr>
<tr>
<td>7.2</td>
<td>400 20,000</td>
<td>CB</td>
<td>PKR72400P</td>
<td>PKR72400P</td>
</tr>
<tr>
<td>7.2</td>
<td>600 20,000</td>
<td>CB</td>
<td>PKR72600P</td>
<td>PKR72600P</td>
</tr>
<tr>
<td>14.4</td>
<td>400 20,000</td>
<td>2-1/4</td>
<td>PKR15400P</td>
<td>PKR15400L</td>
</tr>
<tr>
<td>14.4</td>
<td>400 20,000</td>
<td>2-1/4</td>
<td>PKR15400CP</td>
<td>PKR15400CL</td>
</tr>
<tr>
<td>14.4</td>
<td>600 20,000</td>
<td>2-1/4</td>
<td>PKR15600P</td>
<td>PKR15600L</td>
</tr>
<tr>
<td>14.4</td>
<td>600 20,000</td>
<td>2-1/4</td>
<td>PKR15600CP</td>
<td>PKR15600CL</td>
</tr>
<tr>
<td>14.4*</td>
<td>600 20,000</td>
<td>2-1/4</td>
<td>PKR15600TP</td>
<td>PKR15600TL</td>
</tr>
<tr>
<td>23</td>
<td>400 20,000</td>
<td>2-1/4</td>
<td>PKR23400P</td>
<td>PKR23400L</td>
</tr>
<tr>
<td>23</td>
<td>600 20,000</td>
<td>2-1/4</td>
<td>PKR23600P</td>
<td>PKR23600L</td>
</tr>
<tr>
<td>23</td>
<td>600 20,000</td>
<td>2-1/4</td>
<td>PKR23615P</td>
<td>PKR23615L</td>
</tr>
</tbody>
</table>

*Supplied with integral terminal connectors (No. 2 - 350 MCM Cu.)

All dimensions approximate.