Type R, RE, W, WE reclosers closing solenoid contactor replacement kit KA852R installation instructions
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The instructions in this manual are not intended as a substitute for proper training or adequate experience in the safe operation of the equipment described. Only competent technicians who are familiar with this equipment should install, operate, and service it.

A competent technician has these qualifications:

• Is thoroughly familiar with these instructions.
• Is trained in industry-accepted high and low-voltage safe operating practices and procedures.
• Is trained and authorized to energize, de-energize, clear, and ground power distribution equipment.
• Is trained in the care and use of protective equipment such as arc flash clothing, safety glasses, face shield, hard hat, rubber gloves, clampstick, hotstick, etc.

Following is important safety information. For safe installation and operation of this equipment, be sure to read and understand all cautions and warnings.

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Hazard Statement Definitions

This manual may contain four types of hazard statements:

**DANGER**

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING**

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**CAUTION**

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in equipment damage only.

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Product information

Introduction
Service Information S280-40-11 Types R, RE, W, WE Closing Solenoid Contactor Kit KA852R Installation Instructions is used for contactor replacement in any of Eaton’s Cooper Power™ series Type RE, W, or WE recloser or any Type R recloser after serial number 3733.

Read this manual first
Read and understand the contents of this manual and follow all locally approved procedures and safety practices before installing or operating this equipment.

Additional information
These instructions cannot cover all details or variations in the equipment, procedures, or process described nor provide directions for meeting every possible contingency during installation, operation, or maintenance. For additional information, contact your Eaton representative.

Acceptance and initial inspection
This product is in good condition at the factory and when accepted by the carrier for shipment.

Upon receipt, inspect the carton for signs of damage. Unpack the kit and inspect it thoroughly for damage incurred during shipment. If damage is discovered, file a claim with the carrier immediately.

Handling and storage
Be careful during handling and storage of this kit to minimize the possibility of damage. If the kit is to be stored for any length of time prior to installation, provide a clean, dry storage area.

Quality standards
The Quality System at the Eaton, Distribution Switchgear plant is certified to the following standards:

ISO 9001 standard
CAN/CSA ISO 9001
BE EN ISO 9001
ANSI/ASQC Q9001

Table 1. Replacement Kit KA852R Parts List

<table>
<thead>
<tr>
<th>Item</th>
<th>Part #</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>970901188000M</td>
<td>Retaining Ring Type C .188</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>970901250000M</td>
<td>Retaining Ring Type C .250</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>R002401</td>
<td>Pin</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>RA00430003</td>
<td>Solenoid Contact Assembly</td>
<td>1</td>
</tr>
</tbody>
</table>
Installation

Refer to Figure 1 and the appropriate service manual.

- Service Information S280-30-2 Types R Three-Phase Maintenance Instructions, Serial Number 3733 and above
- Service Information S280-30-3 Types W Three-Phase Maintenance Instructions
- Service Information S280-30-8 Types RX and W (serial number 7334 and above) Three-Phase Maintenance Instructions
- Service Information S280-40-3 Types RE Three-Phase Maintenance Instructions
- Service Information S280-40-4 Types WE Three-Phase Maintenance Instructions
- Service Information S280-40-7 Types RXE and WE Maintenance Instructions

Refer to Table 1 for part identification.

1. Bypass, trip, and de-energize the recloser. Untank the recloser at the cover bolts.
2. Unhook springs connected to pin A.
3. Remove three C-rings from pin A to release contactor operating shaft from toggle mechanism.
4. Disconnect leads at points B.
5. Disconnect leads at points C. Replace washers and nuts to prevent contacts from falling out.
6. Remove three hex-head cap screws that secure the contactor. These are located on the underside of the head mechanism frame.
7. Mount new solenoid contactor assembly, Item 4, by reversing procedure outlined in steps 1, 2, and 3. Use Item 2: .250 retaining ring, to secure pin A. Be sure leads connected at points B and C clear insulated stringers or any grounded parts by at least 13 mm (0.5 in).
8. Compare toggle mechanism of the recloser to the one pictured in Figure 1. Examine pin D.
   A. If pin D is assembled without a spacer, no further work is required (discard Item 1). Proceed to step 10.
   B. If pin D is assembled with a spacer, proceed with step 9.
9. Remove C-ring to release pin D. Take out the old pin D, discard the old spacer, and slip on Item 3: new pin D. Secure the pin with Item 1: .188 retaining ring.
10. Retank and return recloser to service.

Figure 1. Closing solenoid contactor.