200 A 35 kV class insulated protective cap

General
Eaton’s Cooper Power Systems 200 A, 35 kV insulated protective cap meets the full requirements of IEEE Std 386™-2006 standard—Separable Insulated Connector Systems, and provides an insulated, fully shielded submersible cover for an energized 35 kV Class loadbreak interface. The molded peroxide-cured EPDM semi-conductive shield maintains ground potential on the cap’s surface when the drain wire is attached to a grounding lug. The protective cap is required for temporary or permanent installation on 21.1 kV and 21.1/36.6 kV loadbreak bushings, portable feedthru junctions, and other accessories having interfaces that conform to IEEE Std 386™-2006 standard (200 A loadbreak interface No. 1, 21.1 kV and 21.1/36.6 kV).

Installation
No special tools are required. A clampstick tool is used to place the protective cap on an exposed bushing. Refer to Installation Instruction Sheet S500-65-1 for details.

Production tests
Tests conducted in accordance with IEEE Std 386™-2006 standard.
- ac 60 Hz 1 Minute Withstand
  - 50 kV
- Minimum Corona Voltage Level
  - 26 kV
Tests conducted in accordance with Eaton’s Cooper Power Systems requirements.
- Physical Inspection
- Periodic Dissection
- Periodic X-ray Analysis

Cooper Power Systems by Eaton
Ordering information

To order the 35 kV Insulated Protective Cap Kit, refer to Table 2.

Each kit contains:
- Protective Cap with Copper Drain Wire
- Silicone Lubricant
- Installation Instruction Sheet

Table 1. Voltage Ratings and Characteristics

<table>
<thead>
<tr>
<th>Description</th>
<th>kV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Voltage Class</td>
<td>35</td>
</tr>
<tr>
<td>Maximum Rating Phase-to-Phase</td>
<td>36.6</td>
</tr>
<tr>
<td>Maximum Rating Phase-to-Ground</td>
<td>21.1</td>
</tr>
<tr>
<td>ac 60 Hz 1 Minute Withstand</td>
<td>50</td>
</tr>
<tr>
<td>dc 15 Minute Withstand</td>
<td>103</td>
</tr>
<tr>
<td>BIL and Full Wave Crest</td>
<td>150</td>
</tr>
<tr>
<td>Minimum Corona Voltage Level</td>
<td>26</td>
</tr>
</tbody>
</table>

Voltage ratings and characteristics are in accordance with IEEE Std 386™-2006 standard.

Figure 1. Cutaway drawing shows design integrity and stacking dimensions.

Note: Dimensions given are for references only.

Table 2. Protective Cap Kit

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protective Cap</td>
<td>LPC235</td>
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</tbody>
</table>

For a Protective Cap Kit individually packaged in a corrugated cardboard box, insert an "X" as the last character in the part number. Example: LPC235X.

For Eaton's Cooper Power Systems insulated protective cap product information call 1-877-277-4636 or visit: www.cooperpower.com.