200 A 35 kV class insulated standoff bushing

General
Eaton’s Cooper Power Systems 200 A, 35 kV insulated standoff bushing meets the full requirements of IEEE Std 386™-2006 standard, Separable Insulated Connector Systems, and provides a single loadbreak interface made of high quality peroxide cured insulating EPDM rubber. It is used to isolate and sectionalize energized cable in pad-mounted cabinets, underground vaults, and other apparatus. Temporary or permanent parking of energized IEEE Std 386™-2006 standard loadbreak elbow connectors is simplified with use of the insulated standoff bushing. Dual colored (tan and purple) nosepiece designated application with both single-phase (21.1 kV) and (21.1/36.6 kV) rated 35 kV Class 200 A large interface loadbreak elbow connectors.

The insulated standoff bushing is designed to be installed in the parking stand mounted on a transformer or other apparatus. A grounding lug is provided on the standoff bushing bracket for attachment of a drain wire to ensure deadfront construction. When mated with a comparably rated product, the insulated standoff bushing provides a fully-shielded, submersible, separable connector for energized operation.

The standard insulated standoff bushing has a stainless steel eyebolt with a brass pressure foot. The molded EPDM rubber body is bolted to a stainless steel base bracket using a galvanized steel holddown ring.

Installation
No special tools are required. A clampstick tool is used to place the standoff bushing in the parking stand on the front plate of the apparatus. Refer to Service Information S500-22-1, 200 A 15, 25, and 35 kV Class Insulated Standoff Bushing Installation Instructions for details.
Production tests
Tests are conducted in accordance with IEEE Std 386™-2006 standard.
- AC 60 Hz 1 Minute Withstand
  - 50 kV
- Minimum Corona Voltage Level
  - 26 kV
Tests are conducted in accordance with Eaton’s Cooper Power Systems requirements.
- Physical Inspection
- Periodic Dissection
- Periodic X-Ray Analysis

Ordering information
To order the 35 kV Class Insulated Standoff Bushing Kit, refer to Table 2.

Table 2. Standoff Bushing Kit

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standoff Bushing with Standard Bracket</td>
<td>ISB235</td>
</tr>
</tbody>
</table>

Each kit contains:
- Insulated Standoff Bushing with Bracket
- Shipping Cap (not for energized operation)
- 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-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.
Features and detailed description

Figure 1. Insulated standoff bushing profile and stacking dimensions.

Note: Dimensions given are for reference only.
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