Type LGX-34-879
Extended range, high accuracy outdoor current transformer

Product features
- 34.5 kV outdoor, 200 kV BIL, 60 Hertz
- Primary current ratios: 200:5 to 2000:5
- Electrical specifications:
  Creep: 29.0" (737 mm)
  Strike (to base): 18.0" (457 mm)
- Approximate weight (without bar): 232 lbs (105 kg)

Application
The LGX-34-879 outdoor window-type current transformer is rated for use on 34.5 kV systems with 200 kV BIL. Primary current ratios are available from 200:5 to 2000:5 at 60 Hertz with a rating factor of up to 4.0. This dry-type, solid-cast current transformer operates with high accuracy for metering applications.

Mechanical description
The core and coil assembly is wound and encapsulated in a molded cast resin with a 4½" (115 mm) diameter window cycloaliphatic epoxy bushing to provide high withstand capabilities. The high voltage insulating epoxy sleeve has a conductive interior with a pigtail lead for connection to an uninsulated primary conductor to equalize voltage and prevent radio interference and corona. The unit may be supplied with a factory installed NEMA 4-hole primary bus (5500A max rated). Secondary terminals are ¼"-20 (silicon bronze) studs with associated hardware located inside a removable terminal box with two 1" NPT conduit hubs.

The nameplate is made of anodized aluminum and is affixed to each unit on the opposite side of the terminal box.

Mounting
The unit is designed for mounting in the upright or underhung position with the tube horizontal, or in the cantilever position with the tube vertical.

CAUTION:
- Do not mount in the cantilever position with the tube horizontal, as the baseplate can collapse. Mounting holes are punched in the aluminum baseplate.
- The high voltage sleeve and its bar assembly is not to be used to support the primary buswork or conductors.

Testing
This unit can be tested to all applicable IEEE, CSA, or IEC standards as requested.

Options
The LGX-34-879 is available with a primary bus bar kit or conductive bird guards to prevent foreign objects from entering the high voltage insulating sleeve. Contact the factory for other needs.

Accuracy performance
The LGX-34-879 will operate with 0.15 or 0.15S high accuracy for an extended range for metering applications with burdens of B-0.1 up to B-1.8. The transformer maintains 0.15 accuracy from 1% of $I_{nom}$ through its rating factor on certain designs, and can be used continuously to this level (see ratings and burdens specific to each ratio).
### Unit dimensions

For more information please contact:

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**Selection guide**

<table>
<thead>
<tr>
<th>Primary amps</th>
<th>Style number</th>
<th>IEEE metering accuracy</th>
<th>Rating factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>G092015X010-1NC</td>
<td>0.15S-B0.1/0.3S-B0.2</td>
<td>4.0</td>
</tr>
<tr>
<td>300</td>
<td>G093015X050-1NC</td>
<td>0.15S-B0.5/0.3S-B0.9</td>
<td>4.0</td>
</tr>
<tr>
<td>400</td>
<td>G094015X090-1NC</td>
<td>0.15S-B0.9/0.3S-B1.8</td>
<td>4.0</td>
</tr>
<tr>
<td>500</td>
<td>G095015X090-1NC</td>
<td>0.15S-B0.9/0.3S-B1.8</td>
<td>4.0</td>
</tr>
<tr>
<td>600</td>
<td>G096015X090-1NC</td>
<td>0.15S-B0.9/0.3S-B1.8</td>
<td>4.0</td>
</tr>
<tr>
<td>800</td>
<td>G098015X090-1NC</td>
<td>0.15S-B0.9/0.3S-B1.8</td>
<td>4.0</td>
</tr>
<tr>
<td>1000</td>
<td>G091025X180-1NC</td>
<td>0.15S-B1.8</td>
<td>4.0</td>
</tr>
<tr>
<td>1200</td>
<td>G091225X180-1NC</td>
<td>0.15S-B1.8</td>
<td>3.0</td>
</tr>
<tr>
<td>1500</td>
<td>G091525X180-1NC</td>
<td>0.15S-B1.8</td>
<td>3.0</td>
</tr>
<tr>
<td>2000</td>
<td>G092025X180-1NC</td>
<td>0.15S-B1.8</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Available in multi-ratio designs (full tap ratings same as single ratio above).  
One second thermal/mechanical rating: 100x full winding I$_{nom}$/unlimited mechanical.

Available with a 43.5" primary bar kit (max 5500 A). Change the "1" following the hyphen (-) to "3" in the style number.

Additional styles available upon request. Contact your ABB sales representative or call +1-252-827-3212 for more information.

**Primary bar information**

<table>
<thead>
<tr>
<th>Max. current amperes</th>
<th>No. of bars</th>
<th>Stack THK (Dim. A) in. [mm]</th>
<th>HT to base (Dim. B) in. [mm]</th>
<th>Weight lbs [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1201-2500</td>
<td>2</td>
<td>0.75 [19]</td>
<td>15.88 [403]</td>
<td>39 [18]</td>
</tr>
<tr>
<td>2501-5500</td>
<td>3</td>
<td>1.63 [41]</td>
<td>15.44 [392]</td>
<td>79 [36]</td>
</tr>
</tbody>
</table>

For optional bird guards (one pair), order part number 123-0098-901.

Note: Metric dimensions are displayed in [mm].