Current Transformers

GIF 36

General Description
Ritz manufactures an extensive line of cast epoxy resin insulated transformers across the voltage range of 5.5 kV to 72.5 kV. This brochure describes outdoor Current Transformers in the 36kV class with performance ratings coinciding with industry standard product offerings. Ritz, because of product depth, familiarity with international standards and custom design capability can also design according to customer specific needs.

Construction
The toroidal core and winding assembly is encapsulated in cycloaliphatic epoxy resin in a single process, performed under vacuum, using the pressure gelation method. The resin color is grey. Brown is available by special order. Epoxy resin was chosen because of its excellent tracking resistance, high mechanical strength, ability to withstand ultraviolet radiation, superior weathering characteristics and its noncombustibility.

Thermal & Dynamic Rating
For designs up to 600A the short time thermal rating is 100 times nominal current for 1 second and above 600A it is 60kA/1second. The dynamic short time rating is 2.5 times the thermal rating.

Primary Terminals
Primary terminals are flat tin plated copper NEMA two hole or four hole pads, depending on type designation. Primary terminals are detachable so that alternate terminal configurations can be considered. Maximum allowable terminal pull is 1100lbs.

Secondary Terminals
Secondary terminals are brass screw type with a 0.24” diameter. Each terminal can be earthed in the terminal box.

Terminal Box
The secondary terminal box is cast aluminum. Two threaded 1” horizontal hubs with pipe plugs for making connections to 1” conduit are provided. A ground lug designed to accept a one hole connector is part of the terminal box.

Base Plate
The base is made of marine grade aluminum.

Mounting
This transformer may only be mounted in the vertical upright position. Please consult Ritz for alternate designs to accommodate horizontal and suspended mounting.

Nameplates
Nameplate data is engraved on blackened stainless steel plates

Tests
Routine tests in compliance with IEEE are standard. In addition internal partial discharge is performed as a routine test with acceptance criteria of < 20pC at 1.2Vm/√3 and <50pC at 1.2 Vm. Test cards are included with each unit.

Commissioning and Maintenance
Transformers are supplied ready for service. No special tools are required. Instruction manuals are provided with each shipment. Periodic application of silicone grease is recommended.
**CURRENT TRANSFORMER TYPE:** GIF 36-68

<table>
<thead>
<tr>
<th>Current Ratio (A)</th>
<th>Catalog Number</th>
<th>IEEE Accuracy Class 60 Hz</th>
<th>Rating Factor</th>
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<td>500:5</td>
<td>113026068 45893</td>
<td>0.3B-0.9</td>
<td>C100</td>
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<tr>
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<td>0.3B-0.9</td>
<td>C100</td>
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<tr>
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<td>C200/C400</td>
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</tbody>
</table>

**Diagram:**

- **Dimensions:**
  - Diameter: 17.70''
  - Height: 30.70''
  - Width: 25.60''
  - Depth: 20.50''
  - Mounting hole: ø0.75''
  - Ground lug: ø0.42''

- **Technical Specifications:**
  - Maximum System Voltage: 36.2 kV
  - Power Freq. Withstand Volt.: 70 kV
  - Basic Impulse Level: 200 kV
  - Creepage Distance: 71.75''
  - Strike Distance: 28.85''
  - Weight: 396 lbs
  - Cantilever Strength: 1100 lbs

- **Small deviations in weight and dimensions are possible.**