CURRENT TRANSFORMERS

HIGH ACCURACY CURRENT TRANSFORMER

MODEL: JAK-0S

FEATURES

- Maximize revenue metering accuracy with special high accuracy rating extended beyond IEEE requirements.
- Simplify CT selection and billing multipliers, improving productivity and minimizing risk of error.
- Reduce inventory and part number requirements, reducing asset and operational costs.
- Window I.D. - 3.062”

APPLICATIONS

JAK-0S is a revenue metering current transformer which maintains IEEE 0.15 accuracy class from 1% of rated current up through rating factor. This is accomplished using the specialized amorphous core material which minimizes electrical core losses. The result is an extremely accurate CT that can maintain high accuracy over a extended range of current. Model JAK-0S is designed for indoor service. Optional Bar Kits available, see application table.

SPECIFICATIONS

Frequency ................................................. 50-60Hz
Insulation Class .............................. 0.6kV, 10kV BIL Full Wave
Transformer .................................. Approximately 9 Lbs.
Primary Bar ................................................... Add 3 Lbs.

CONSTRUCTION DETAILS

Construction and Insulation
The core and coil assembly is encapsulated in resin within a molded case. The case is molded with Valox thermoplastic polyester resin. This tough material has excellent electrical and mechanical properties over a wide temperature range, has low water absorption and is resistant to oil and a variety of chemicals. The polyurethane resin filling completely encapsulates the winding, leads and terminals to form a waterproof unit.

Core and Coils
The core is manufactured with high-efficiency material that reduces energy losses, allowing for higher accuracy over a wider range. The secondary winding is made of heavy enameled copper wire evenly distributed around the core for maximum accuracy and resistance to stray fields from adjacent conductors.

Terminals
Secondary terminals are tin plated brass, compression type with a 0.275” diameter cross-hole for wiring and a 1/4-28 clamp screw. A shorting device is provided and interlocked to the terminal cover. The terminal cover is made of a clear plastic. Provision is made for sealing the cover.

Polarity
The H1 polarity mark is indented into the body, above the window at one end. The X1 polarity mark is also molded into the body adjacent to the secondary terminal. Both marks are white for visibility.

Nameplates
The nameplate is laser engraved aluminum. It is attached to the top of the unit. The nominal current rating is marked on the side of the unit in large numerals.

Primary Bars (Optional)
Formed from flat copper bar, they are tin-plated. They can be supplied mounted to the transformer, or separately for assembly into window-type units; they can be rotated to bring the terminal pads into any orientation. The bar is supported and held in place by two end plates, which act as small animal barriers. One plate is permanently attached to the bar; the other has a slot allowing it to be slipped over the bar where it is held in place by two setscrews. Holes in the plate allow ventilation and drainage of any water which might accumulate in the window. A potential connector is provided, adjacent to the fixed end plate.

Baseplate and Mounting
The transformer can be mounted in any position and may be suspended from the bus-bar or cable. The base is made from stainless steel.

Maintenance
These transformers require no maintenance, other than occasional cleaning, if installed where air contamination is severe.
## APPLICATION AND ORDERING DATA

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>11.88&quot; PRIMARY BAR ASSEMBLY</th>
<th>CURRENT RATIO (AMPS) PRI:SEC</th>
<th>CONTINUOUS THERMAL RATING FACTOR</th>
<th>WINDOW I.D. (INCHES)</th>
<th>DEPTH (INCHES)</th>
<th>MAX BURDEN FOR 0.15% ACCURACY 1% - RF</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOW BASE</td>
<td></td>
<td></td>
<td>@ 30°C</td>
<td>@ 55°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>750X333012</td>
<td>0821C34762-4</td>
<td>600:5</td>
<td>2.0</td>
<td>3.062</td>
<td>4.20</td>
<td>B0.5</td>
</tr>
<tr>
<td>750X333016</td>
<td>0821C34762-10</td>
<td>1000:5</td>
<td>2.0</td>
<td>3.062</td>
<td>4.20</td>
<td>B0.5</td>
</tr>
</tbody>
</table>

## DIMENSIONS

### 0821C34762-4
- PRIMARY BAR ASSEMBLY

### 0821C34762-10
- PRIMARY BAR ASSEMBLY

All Dimensions In Inches (mm)

---

**FLEX-CORE**

4970 Scioto Darby Rd. Hilliard, Ohio 43026

**WWW.FLEX-CORE.COM**

sales@flex-core.com

**PHONE** (614) 889-6152

**TECH. ASSISTANCE** (614) 876-8308

**FAX #** (614) 876-8538