

Model JCW-0C

Indoor/Outdoor Current Transformer
600 V, 10 kV BIL, 100-800 A, Window Diameters 1.125", 1.50", 2.00"

Application

Designed for both indoor and outdoor service. Designed to provide high accuracy in applications with high metering secondary burdens. Suitable for operating meters and instruments, on both single phase two-wire circuits and polyphase circuits.

Weight

(approximate)

Transformer, without base

200:5 5.5 lbs

300:5 4.8 lbs

400:5 4.0 lbs

Low Base, add 0.5 lbs

High (EEI) Base, add 1.0 lbs

Reference Drawings

Outline 0121C44465

Bar Assembly (600-800A) 0821B38057

Bar Assembly (400A) 0821B38093

Bar Assembly (200-300A) 0821B38639

Bar Assembly (100A) 0821B38662

Low Base Assembly 0221A36157

High Base Assembly 0221A36158



Frequency

50-60 Hz

Insulation Level

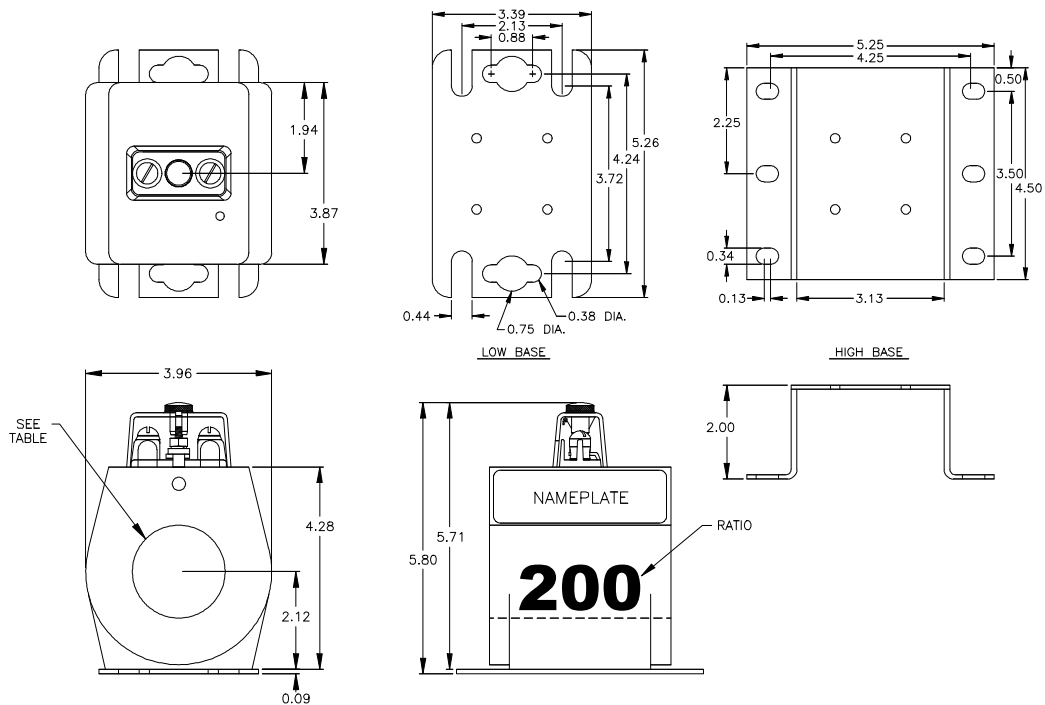
0.6 kV; BIL 10 kV full wave

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| Current Ratio (Amps) Pri : Sec | ANSI Accuracy Class, 60 Hz Burden Per ANSI | | | Continuous Thermal-Current Rating Factor | | Window I.D. (inches) | Catalog Number (With Secondary Hardware and Cover) | Catalog Number (With Primary Bar) |
|--------------------------------------|--|------|------|--|---------------|-------------------------|--|---|
| | BO.1 | BO.2 | BO.5 | 30 °C Ambient | 55 °C Ambient | | | |
| Without Base | | | | | | | | |
| 100:5 | 0.3 | 0.3 | 1.2 | 4.0 | 3.0 | 1.125 | 750X132623 | 750X132626 |
| 200:5 | 0.3 | 0.3 | 0.3 | 4.0 | 3.0 | 1.50 | 750X132638 | 750X132639 |
| 200:5 | 0.3 | 0.3 | 0.3 | 3.0 | 2.0 | 1.50 | 750X132203 | 750X132629 |
| 300:5 | 0.3 | 0.3 | 0.3 | 2.0 | 1.5 | 2.00 | 750X132206 | 750X132632 |
| 400:5 | 0.3 | 0.3 | 0.3 | 2.0 | 1.5 | 2.00 | 750X132204 | 750X132635 |
| 600:5 | 0.3 | 0.3 | 0.3 | 2.0 | 1.5 | 2.00 | 750X132616 | 750X132611 |
| 800:5 | 0.3 | 0.3 | 0.3 | 1.5 | 1.0 | 2.00 | 750X132620 | 750X132613 |
| With Low Base | | | | | | | | |
| 100:5 | 0.3 | 0.3 | 1.2 | 4.0 | 3.0 | 1.125 | 750X132624 | 750X132627 |
| 200:5 | 0.3 | 0.3 | 0.3 | 4.0 | 3.0 | 1.50 | 750X132640 | 750X132641 |
| 200:5 | 0.3 | 0.3 | 0.3 | 3.0 | 2.0 | 1.50 | 750X132213 | 750X132630 |
| 300:5 | 0.3 | 0.3 | 0.3 | 2.0 | 1.5 | 2.00 | 750X132220 | 750X132633 |
| 400:5 | 0.3 | 0.3 | 0.3 | 2.0 | 1.5 | 2.00 | 750X132214 | 750X132636 |
| 600:5 | 0.3 | 0.3 | 0.3 | 2.0 | 1.5 | 2.00 | 750X132614 | 750X132612 |
| 800:5 | 0.3 | 0.3 | 0.3 | 1.5 | 1.0 | 2.00 | 750X132621 | 750X132618 |
| With High (EEI) Base | | | | | | | | |
| 100:5 | 0.3 | 0.3 | 1.2 | 4.0 | 3.0 | 1.125 | 750X132625 | 750X132628 |
| 200:5 | 0.3 | 0.3 | 0.3 | 4.0 | 3.0 | 1.50 | 750X132642 | 750X132643 |
| 200:5 | 0.3 | 0.3 | 0.3 | 3.0 | 2.0 | 1.50 | 750X132223 | 750X132631 |
| 300:5 | 0.3 | 0.3 | 0.3 | 2.0 | 1.5 | 2.00 | 750X132226 | 750X132634 |
| 400:5 | 0.3 | 0.3 | 0.3 | 2.0 | 1.5 | 2.00 | 750X132224 | 750X132637 |
| 600:5 | 0.3 | 0.3 | 0.3 | 2.0 | 1.5 | 2.00 | 750X132617 | 750X132615 |
| 800:5 | 0.3 | 0.3 | 0.3 | 1.5 | 1.0 | 2.00 | 750X132622 | 750X132619 |



JCW-0C Dimensions



Construction and Insulation

The core and coil are encapsulated in polyurethane resin. This material has excellent electrical and mechanical properties over a wide temperature range and is resistant to oil and a variety of chemicals.

Core and Coils

The core is made from high quality grain oriented silicon steel, annealed under rigidly controlled factory conditions. 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 molded into the transformer body above the window at one end. The X1 polarity mark is also molded into the body adjacent to the secondary terminal. They are identified with a white dot.

Primary Window

The window has ample size to accommodate cables of current-carrying capacity equal to, or greater than, the transformer's thermal current rating.

Primary Bars

Removable tin-plated copper primary bars are available for all ratings of the JCW-0C type transformer.

Nameplates

The nameplate is laser engraved aluminum. It is attached to the side of the unit and has provision for attaching the user's identifying tag. The nominal current rating is marked on the side of the unit in large numerals.

Baseplate and Mounting

The transformer can be mounted in any position and may be suspended from the bus-bar or cable. It has provision for attaching two optional bases. Bases are made from stainless steel. The high base increases the transformer height by two inches and meets the dimensions specified in ANSI C12.11

Maintenance

These transformers require no maintenance, other than occasional cleaning, if installed where air contamination is severe.

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