Grid Solutions

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

Frequency

50-60 Hz

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

Insulation Level

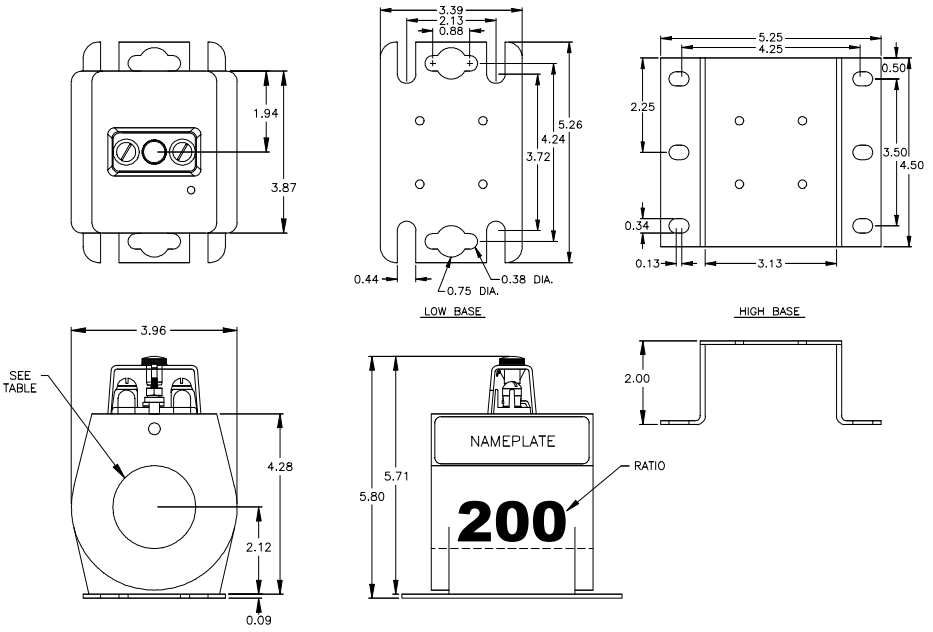
0.6 kV; BIL 10 kV full wave

GE VERNOVA

Model JCW-0C

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)
	B0.1	B0.2	B0.5	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.

For more information, visit
gevernova.com/grid-solutions

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GEA-N50644
English
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