

MODEL JCR-0W ENCOMPASS™

Indoor/Outdoor Current Transformer

600V
10 to 1,000A



Application

Encompass™ is an extended range revenue metering current transformer. Model JCR-0W is designed for both indoor and outdoor service. Suitable for operating meters and instruments, on both single-phase two- wire circuits and polyphase circuits.

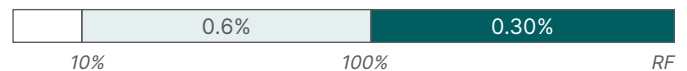
Features

- Voltage Class: 0.6 kV
- Frequency: 50-60 Hz
- Insulation Level: 10 kV BIL
- Application: Indoor
- Window Size: 2.0"

Benefits

- Light load test points extended beyond IEEE requirements plus high rating factors allow for one Encompass unit to functionally replace multiple standard ratios
- Simplify CT selection and billing multipliers, improving productivity and minimizing risk of error
- Reduce inventory and part number requirements, reducing asset and operational costs

0.3 Class – Standard Revenue Metering Accuracy



Encompass™



Unit Selection Model JCR-0W Encompass™

CURRENT RATIO (Amps)	IEEE METERING ACCURACY (60Hz)	RATING FACTOR		PRIMARY BAR	CATALOG NUMBER		
		30°C	55°C		NO BASE	LOW BASE	HIGH BASE
250:5	0.3B0.2 ¹	4.0	3.0	No	750×134608	750×134609	750×134610
250:5	0.3B0.2 ¹	4.0	3.0	Yes	750×134627	750×134618	750×134646

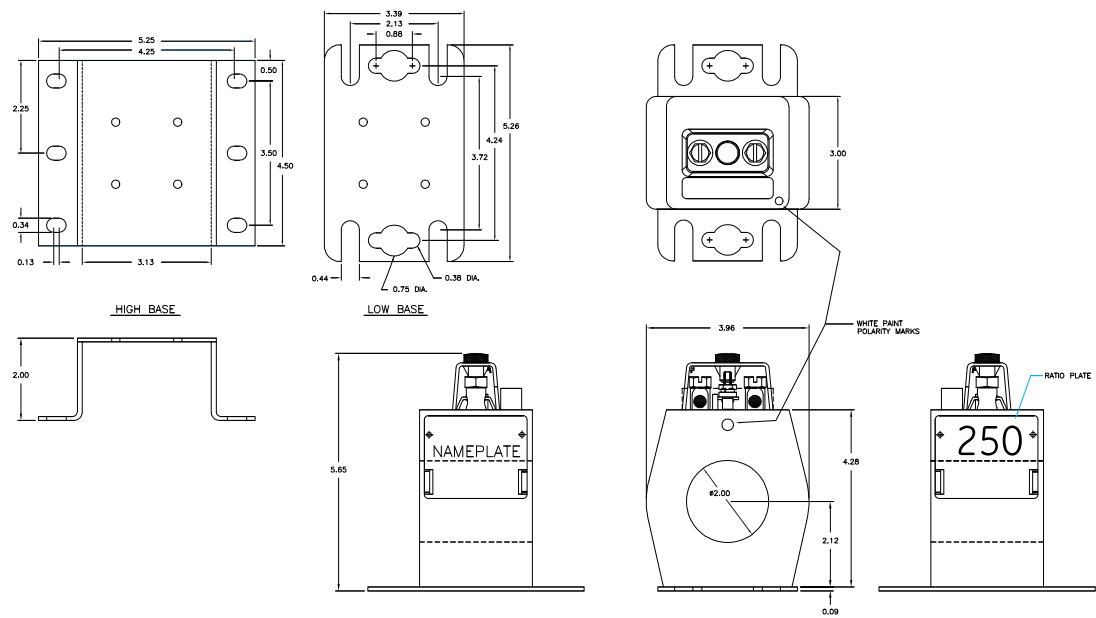
(1) Exceeds IEEE definition for standard revenue metering accuracy. Maintains 0.6 Accuracy Class from 4 % to 40 % of rated current and 0.3 Accuracy Class from 40 % through Rating Factor.

(2) Other designs available, upon request. Contact meters@spectrumind.com for more details.



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Model JCR-0W - Dimensions



REFERENCE DRAWINGS		WEIGHT			
Outline	Primary Bar Assembly	Transformer, Window	Primary Bar, add	Low Base, add	High Base, add
0121C45193	0821C45191	4 lbs	2 lbs	0.3 lbs	1 lbs

Construction and Insulation

The core and coil are enclosed in a case 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.

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. The secondary windings are 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.

Nameplates

The nameplate is laser engraved aluminum. It is attached to the

Maintenance

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

Primary Window

The window has ample size to accommodate cables of current-carrying capacity equal to or greater than the transformers thermal current rating. A 11.875" x 2" x 0.5" removable, solid copper bar, tin-plated primary bar is available as an option.

Polarity

The H1 polarity mark is molded into the case, above the window at one end. The X1 polarity mark is also molded into the case adjacent to the secondary terminal. Both H1 and X1 are marked with white dots.

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. Low bases are made from stainless steel. The high base increases the transformer height by 2 inches.

