Grid Solutions

MODEL JAB-0W ENCOMPASS™

Application

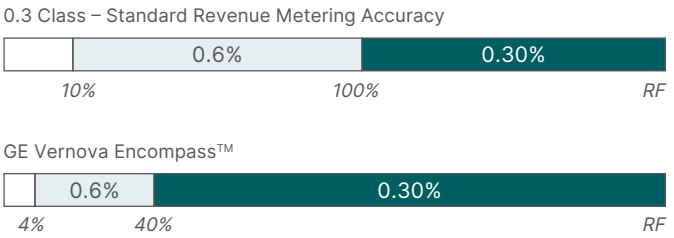
Encompass™ is an extended range revenue metering current transformer. Model JAB-0W is designed for both indoor and outdoor service; especially designed for installation over the secondary bushings of padmounted transformers from 75 kVA to 3,000 kVA. For mounting and application information, including use at higher voltages, and matching the current rating to the transformer thermal capability, please refer to the Applications Information section of catalog GEP- 9186.

Features

- Voltage Class: 0.6 kV
- Frequency: 50-60 Hz
- Window Size: 4.5” x 3.5”
- Insulation Level: 10 kV BIL
- Application: Indoor
- Weight: 4 lbs

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



Unit Selection

CURRENT RATIO (Amps)	METERING ACCURACY	RATING FACTOR			HI TEMP	CATALOG NUMBER
		30°C	55°C	85°C		
500:5	0.3 B0.5[1]	4.0	3.0	--	No	750X136651
1,500:5	0.3 B0.5[1]	2.0	1.5	--	No	750X136652
500:5	0.3 B0.5[1]	--	--	4.0	Yes	750X136464
1,500:5	0.3 B0.5[1]	--	--	2.0	Yes	750X136463

(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.

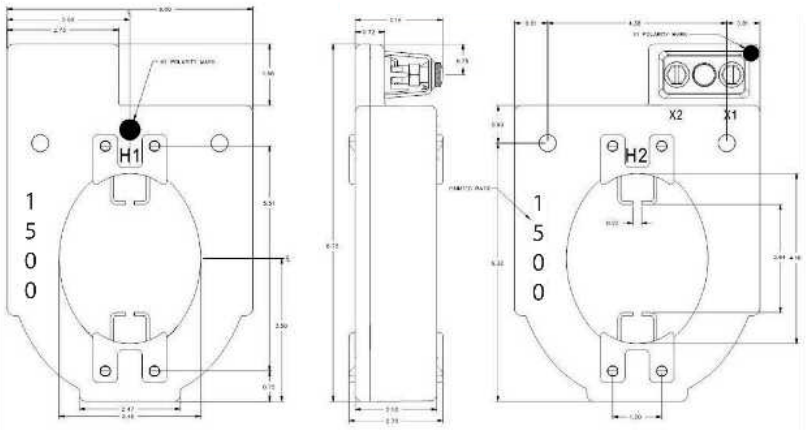
(2) Other designs available, upon request. Contact GE Vernova for more details.

GE VERNOVA

Model JAB-0W Encompass™

REFERENCE DRAWINGS	
Outline	0121C33851
Outline Cast Resign*	0121C40890

REFERENCE DRAWINGS	
Transformer	4lbs



**500:5 Hi Temp model uses cast resign design. Contact GE Vernova for dimensions*

Construction and Insulation

The core and coil assembly is encapsulated in resin within a molded case. The case is molded with GE Vernova 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. A polyurethane resin filling completely encapsulates the winding, leads and terminals to form a waterproof unit. The 500:5 HIGH temperature CT is slightly larger and molded in polyurethane resin.

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.

Polarity

Primary and secondary marks H1, H2 and X1, X2 are molded into the case. In addition, H1 and X1 are identified by white dots. The 500:5 HIGH temp. CT uses a polarity dot only to distinguish the H1 side.

Primary Conductor

These transformers are primarily intended for installation over the bushing and terminal blade of pad mount transformers, which then forms the primary conductor.

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 on both faces of the unit in large numerals.

Mounting

The transformer can be mounted in any position but is usually installed on the pad mount tranformer terminal blade using the "grabbers". The transformer also has two mounting holes allowing it to be attached to a mounting bracket.

Maintenance

These transformers require no maintenance, other than occasional cleaning,

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

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English
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