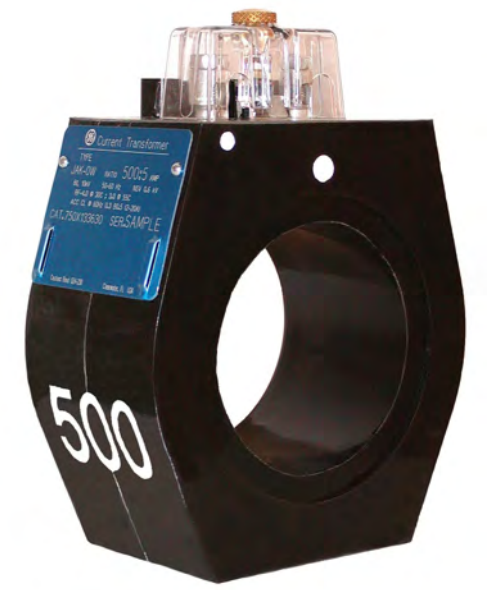
Encompass Current Sensor

Model JAK-0W – 600V, 10kV BIL, 200-2000A

Window Diameter 3.062"



APPLICATION

Designed for both indoor and outdoor service. Suitable for operating meters and instruments, on both single-phase two-wire circuits and polyphase circuits. The window type transformer can also be used on three-wire single-phase circuits. For use on higher voltage circuits with an insulated primary conductor, refer to the Applications Information section of catalog GEP-9186.

ANSI METER ACCURACY CLASS, 60 Hz

Burdens per ANSI
B-0.1 through B-0.5 ……0.3, All Models

WEIGHT (approximate)

Window-Type Transformer	12 lbs
Primary Bar add	3 lbs
Low Base, add	0.7 lbs
High Base, add	1.0 lbs
Primary Bar	3.0 lbs

REFERENCE DRAWINGS

Outline ……0121C36118

INSULATION LEVEL

0.6 kV; BIL 10kV full wave

FREQUENCY

50-60 Hz

JAK-0W DATA TABLE

Current Ratio (in Amps) Pri:Sec	0.3 B0.5 ANSI Accuracy @ 60 HZ	Continuous Thermal Current Rating Factor**		Primary Bar	Catalog Number		
		30 °C Ambient	55 °C Ambient		Low Base	Wide Base	High Base
500:5	200:2 to 2000:20	4.0	3.0	No	750X133629	750X133631	750X133633
500:5	200:2 to 2000:20	4.0	3.0	Yes	750X133630	750X133632	750X133634

** Transformer rated meters must be investigated for use at the lower current range extension.

Construction and Insulation
The core and coil are encapsulated in cast 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 ¼-28 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. Dual ratio models have three terminals with X3 as the common connection; X1-X3 is the high ratio connection, and X2-X3 is the low ratio connection.

Conduit Attachment
A secondary conduit box, attached to the secondary terminal block, is available. It is suitable for outdoor applications. Box and cover are made of aluminum with a black finish. The cover has a gasket and four sealable thumb-screws. The same box is used for single and dual ratio transformers.

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 filled with white paint for visibility.

Primary Bars
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 insulated 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 clamp type potential connector is provided, adjacent to the fixed end plate.

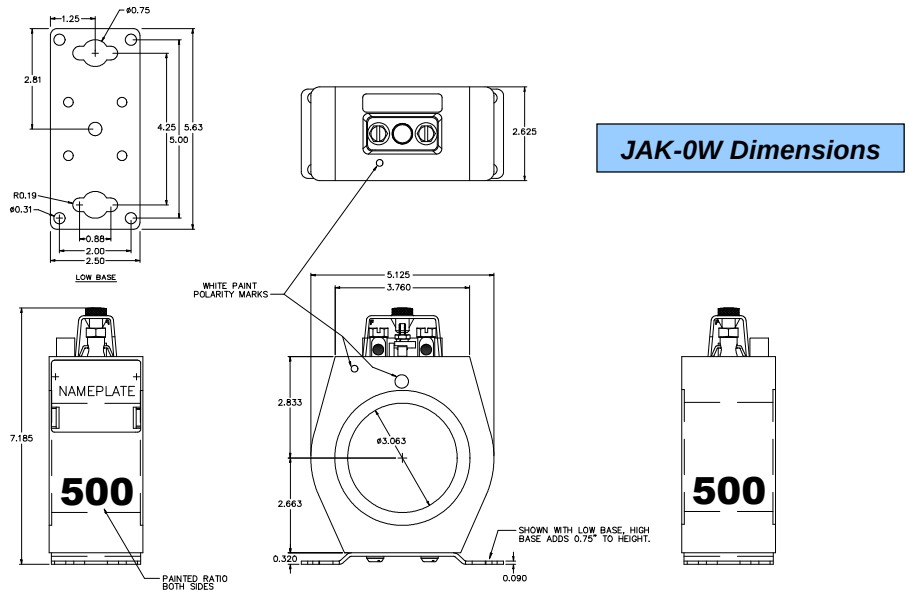
Nameplates
The nameplate is laser engraved aluminum. It is attached to the top of the unit and has provision for attaching the user's identifying tag. The nominal current rating is marked on the side of the unit in large numerals.

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 three optional bases. Bases are made from heavy steel and plated. The high base increases the transformer height to provide interchangeability with 600V bar-type current transformers.

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

Data subject to change without notice

To purchase or obtain more information about GE Instrument Transformer products, please call GE's Charlotte Service Center at 1-800-431-7867. Product information is also available on our web site at http://www.GEIndustrial.com. Click on the Product Index button (right column), select Transformers and follow the menus to Product Information or a Solutions Advisor.



JAK-0W Dimensions

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