

# MODEL JCK-5 SUPERBUTE™

## Outdoor Current Transformer

15,000V, 5A to 800A,  
50/60 Hz, 110kV BIL



### Application

Designed for outdoor service; suitable for revenue metering. Rated Distribution class with a compact design for maximizing efficiency in solid-state revenue metering applications. Available in a variety of ratio as outlined in the unit selection table below, with additional designs available upon request.

### Features

- Weight: 35 lbs (unit), 43 lbs (shipping)
- Dimensions: 13.63" (h) x 9.38" (w) x 11" (d)
- Creep Distance: 14" [355.6 mm]
- Strike Distance: 8.75" [222.25 mm]
- Insulation: HY-BUTE 60™ Butyl Rubber
- Insulation Class: 110 kV BIL, Outdoor
- Design Standard: IEEE C57.13

### Reference Drawings & Accessories

#### Accuracy Curve(s) at 60 Hz.

- 10A to 200A, and 400A - 9689241767
- 300A - 9689241769
- 600A and 800A - 9689241768

#### Accessories

- "L" Mounting Brackets - 8944634001
- Auxiliary "L" Mounting Brackets - 8944270001
- Channel Bracket - 5466227001
- Suspensions Hooks - 8944630001
- Secondary Conduit Box - 9689897001



## Unit Selection

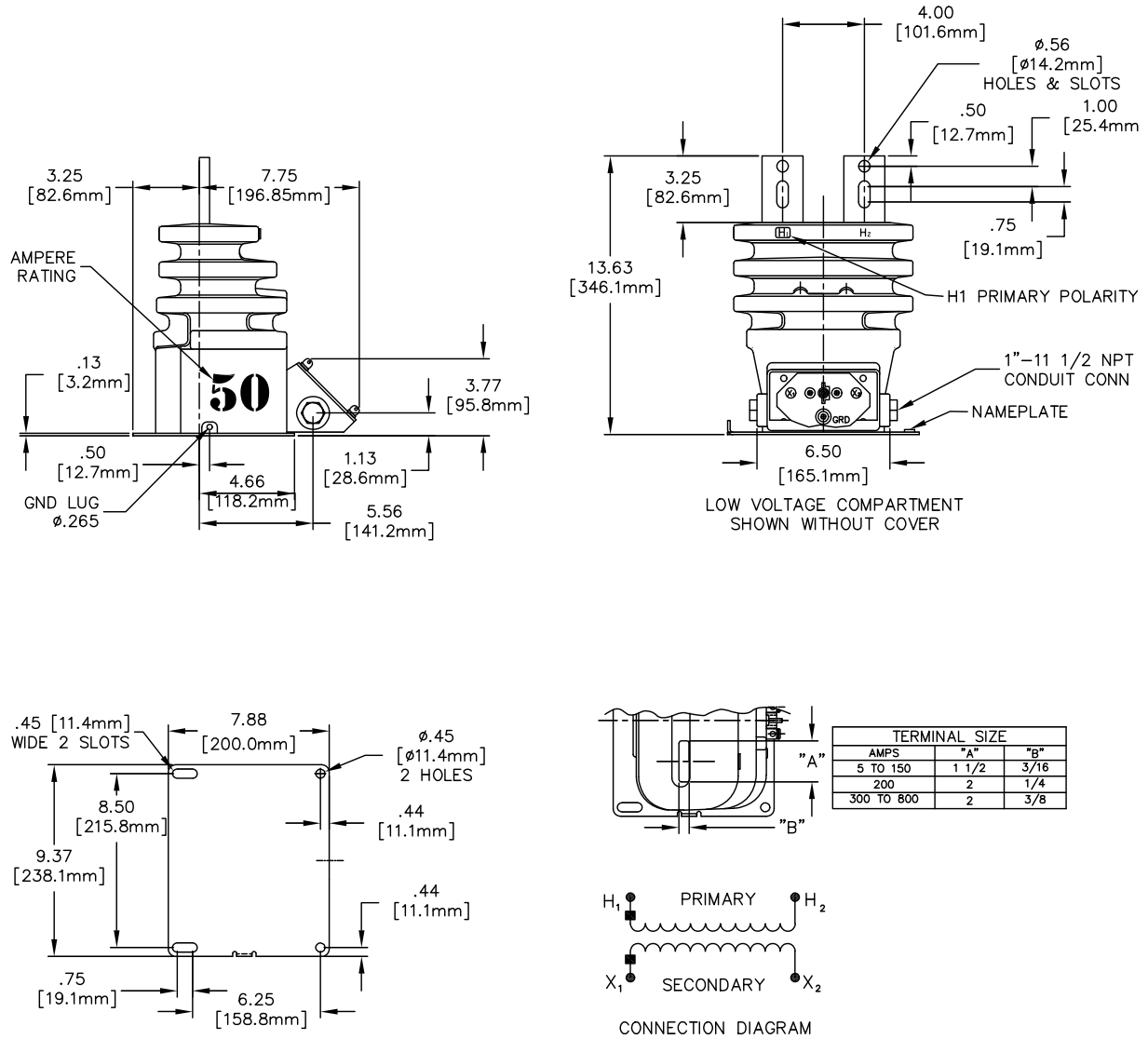
CURRENT RATIO	METER CLASS	RF <sup>1</sup>	MECHANICAL LIMIT, Amps	1-Sec THERMAL LIMIT, Amps	CATALOG NUMBER
5:5	0.3B0.5	3.0	4,000	2250	755X052016
10:5	0.3B0.5	3.0	4,000	2250	755X052001
15:5	0.3B0.5	3.0	6,000	3375	755X052002
20:5	0.3B0.5	3.0	8,000	4500	755X052003
25:5	0.3B0.5	3.0	10,000	5625	755X052004
30:5	0.3B0.5	3.0	12,000	6750	755X052005
40:5	0.3B0.5	3.0	16,000	9000	755X052006
50:5	0.3B0.5	3.0	20,000	11250	755X052007
75:5	0.3B0.5	3.0	25,000	13875	755X052008
100:5	0.3B0.5	3.0	40,000	22500	755X052009
150:5	0.3B0.5	3.0	50,000	27750	755X052010
200:5	0.3B0.5	3.0	66,000	45000	755X052011
300:5	0.3B0.5	3.0	100,000	55500	755X052012
400:5	0.3B0.5	2.5	100,000	56000	755X052013
600:5	0.3B0.5	2.0	100,000	60000	755X052014
800:5	0.3B0.5	1.5	100,000	60000	755X052015

1. "RF" is defined as Continuous Thermal Rating Factor at 30°C, ambient

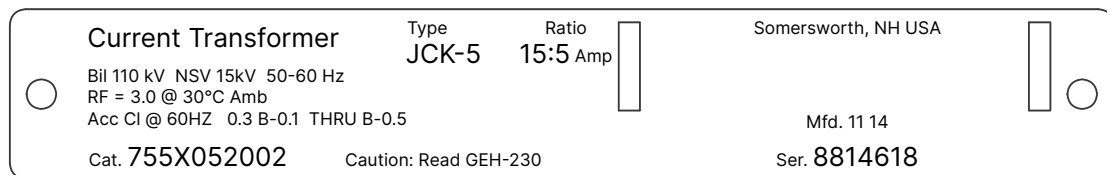
## Selection Guide

PRODUCT CLASS	5 kV	8.7 kV	15 kV	25 kV	35 kV	46 kV	69 kV
Station Class	JKW-3	JKW-4	JKW-5	JKW-150	JKW-200	JKW-250	JKW-350
BIL	60 kV BIL	75 kV BIL	110 kV BIL	150 kV BIL	200 kV BIL	250 kV BIL	350 kV BIL
Accuracy, RF	0.3B1.8, RF 1.5	0.3B1.8, RF 1.5	0.3B1.8, RF 1.5	0.3B1.8, RF 2.0/1.5	0.3B1.8, RF 2.0/1.5	0.3B1.8, RF 2.0/1.5	0.3B1.8, RF 2.0/1.5
Relay Class	T100	T100	T200	T200/T400	T200/T400	T200/T400	T200/T400
Creep Distance	12.5"	12.5"	24"	44.1"	56.6"	71.0"	86.6"
Net Weight	40 lbs.	40 lbs.	60 lbs.	323 lbs.	348 lbs.	543 lbs.	593 lbs.
Distribution Class	JCK-3	JCK-4	JCK-5	JKW-6	JKW-7		
BIL	60 kV BIL	75 kV BIL	110 kV BIL	150 kV BIL	200 kV BIL		
Accuracy, RF	0.3B0.5, RF 3.0	0.3B0.5, RF 3.0	0.3B0.5, RF 3.0	0.3 B0.9, RF 3.0	0.3B0.5, RF 3.0		
Relay Class	---	---	---	T100 or T200	---		
Creep Distance	15.5"	15.5"	15.5"	24"	27.6"		
Net Weight	35 lbs.	35 lbs.	35 lbs.	80 lbs.	72 lbs.		

## Dimensions, Mounting & Wiring Diagram



## Typical Nameplate



Please contact factory for information

## Construction Details

### Insulation

The transformer design is constructed using GE Vernova's premium HY-BUTE 60 molded butyl rubber insulation for the transformer body. First introduced in 1955, GE Vernova's unique formulation is non-arc tracking and resistant to heat, chemicals, ozone and ultraviolet. This tough, resilient insulating material has proven to be superior in handling mechanical, electrical and environmental extremes, when compared against other insulation designs such as porcelain, urethane or epoxy.

### Core & Coil

The core is made from high-quality, grainoriented, low-loss, high permeability silicon steel which is carefully selected and tested under rigidly controlled factory conditions. The core is wound in the direction of the grain to take advantage of the high permeability.

### Windings

The primary winding consists of strip wound copper in a circular pattern for the lower ratings, and a single-turn configuration for the higher ratings. This type of construction provides good accuracy, along with the highest fault current withstand characteristics. The secondary winding is made of enamel-insulated copper wire, evenly distributed around the core. This construction reduces leakage flux and provides the best possible accuracy.

### Primary Terminals

The primary terminals are flat copper bars, each with one bolt hole and a slot, which facilitates connections to various size cable lugs. The terminal surfaces are tin-plated to reduce contact resistance, and to allow connection to either copper or aluminum conductors.

### Secondary Terminals & Conduit Box

The secondary terminals are clamp-type, with a 0.275-inch diameter hole, simplifying the connection of large or multiple secondary wires. The terminals are located on the front of the transformer on the flat butyl surface adjacent to the baseplate. The terminals are made of bronze for excellent durability and corrosion resistance. An internal secondary terminal block secures the secondary terminals, as well as a stud in between the two terminals, which is used as a short-circuit device pivot. The short-circuit device is simple, easy to operate, and is made of sturdy bronze parts to give the highest reliability. It features a large contact area, with the short-circuit device and a slot in the terminal having parallel faces to make and extremely good electrical contact. The contact with the terminal is direct, thus eliminating additional joints or connections.

### Testing

Rigorous GE Vernova test requirements go beyond ANSI/IEEE routine requirements in order to ensure long term reliability. Test reports are saved electronically and can be e-mailed in various formats upon request.

### Ground Terminal

A ground terminal is provided in the secondary compartment for making an optional connection to one of the secondary terminals. The 1/4-20 round-head ground terminal is welded in the baseplate bracket, and is furnished with a nut, cup washer, flat washer, and lock washer.

### Polarity

The primary and secondary polarity markers are molded in the insulation. They are thus permanent and integral parts of the transformer and cannot readily be obliterated. The polarity is subtractive.

### Baseplate and Mounting

The base is made of stainless-steel. A stainless-steel grounding lug is welded to the baseplate and provides a hole for attaching the grounding connector. Mounting holes or slots are located in each corner of the baseplate. Mounting hardware is supplied with the transformer. The transformer can be mounted with the primary terminals in any position—up, down, or horizontal. It can be bolted directly to a crossarm attached by "U" bolts or suspension hooks, or mounted on double crossarms, using channel brackets. Refer to the Accessories Listing on the transformer data sheet for Catalog Numbers.

### Nameplate

The nameplate is made of stainless-steel and located on the base of the transformer. Information is per IEEE designation, laser-engraved for easy-to-read form. Custom barcoding available upon request.

### Rating Identification

The primary current rating is identified by large orange digits located on two sides of the transformer. This provides permanent identification that is clearly visible from a distance, and is resistant to fading and abrasion.

### Maintenance

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

For more information, visit  
**[gevernova.com/grid-solutions](http://gevernova.com/grid-solutions)**



Instrument Transformers LLC reserve the right to change specifications of described products at any time without notice and without obligation to notify any person of such changes.

© 2025 GE Vernova and/or its affiliates. All rights reserved. GE and the GE Monogram are trademarks of General Electric Company used under trademark license.

GEA-N50385  
English  
251015