MODEL JCS-0C

Indoor/Outdoor Current Transformer

600 V, 10 kV BIL, 50-4,000 A
Window Diameters 2.50”, 4.88”, 5.25”

Application

Designed for indoor service; suitable for operating meters, relays and control devices, on circuits not exceeding 600 V line-to-line. It may be used on higher voltage circuits with an insulated conductor; please refer to the Applications Information section of catalog GEP-9186.

Regulatory Agency Approvals

UL Recognized ..... File E93779

Weight

(Approximate)
Transformer,Cat No.750X110038 ..... 47 lbs
Transformer,Cat No.750X110039-045 ..... 34 lbs
Transformer,Cat No.750X110046-072 ..... 28 lbs
Optional base plate ..... 1.5 lbs

Reference Drawings

Outline 0121C33697

Insulation Level

0.6 kV; BIL 10 kV full wave

Frequency

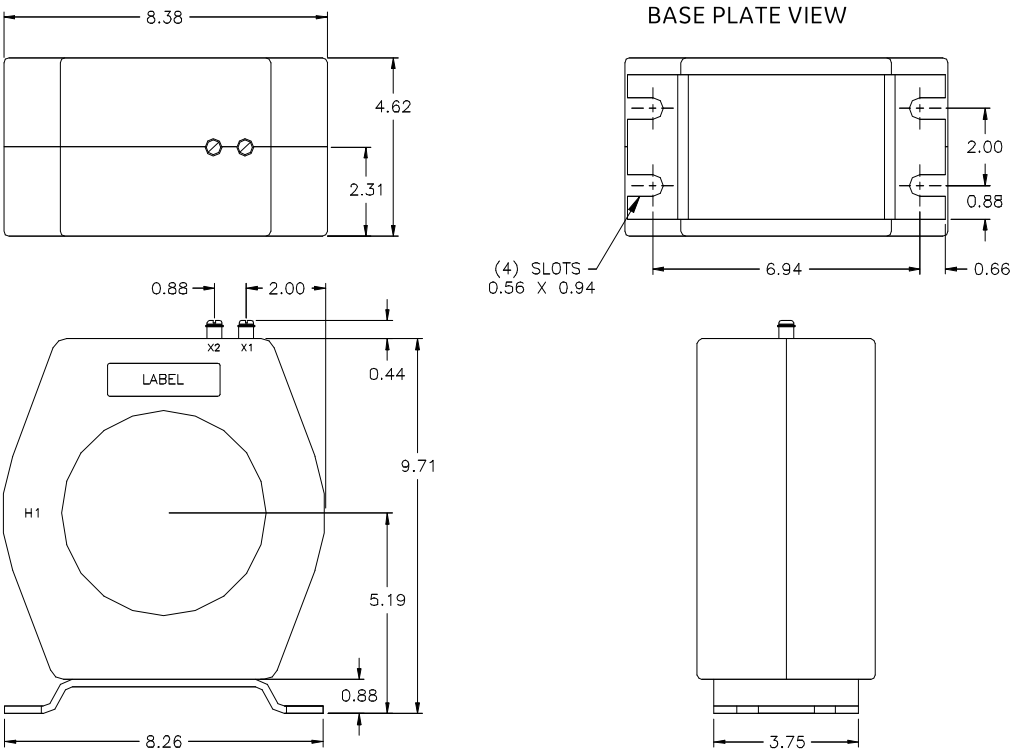
50-60 Hz

Model JCS-0C Product Data

CURRENT RATIO Φ (Amps) PRI: Sec	ANSI ACCURACY CLASS, 60 Hz		CONTINUOUS THERMAL-CURRENT RATING FACTOR		WINDOW DIAMETER Ψ (Inches)	CATALOG NUMBER	
	METER CLASS, BURDEN	RELAY CLASS	@ 30°C AMBIENT	@ 55°C AMBIENT		WITH BASE	WITHOUT BASE
Single-Ratio							
50:5	2.4 thru B0.2	C20	2.0	2.0	2.50	750X110038	750X110001
100:5	2.4 thru B0.2	C10	2.0	2.0	4.88	750X110039	750X110002
200:5	0.6 thru B0.2	C20	2.0	2.0	4.88	750X110041	750X110004
300:5	0.3 thru B0.2	C50	2.0	2.0	4.88	750X110042	750X110005
400:5	0.3 thru B0.5	C50	2.0	2.0	4.88	750X110043	750X110006
600:5	0.3 thru B0.5	C100	2.0	2.0	4.88	750X110045	750X110008
800:5	0.3 thru B0.9	C100	2.0	2.0	5.25	750X110046	750X110009
1,000:5	0.3 thru B0.9	C100	2.0	2.0	5.25	750X110047	750X110010
1,200:5	0.3 thru B1.8	C200	2.0	1.5	5.25	750X110048	750X110011
1,500:5	0.3 thru B1.8	C200	1.5	1.0	5.25	750X110049	750X110012
1,600:5	0.3 thru B1.8	C200	1.33	1.0	5.25	750X110050	750X110013
2,000:5	0.3 thru B1.8	C200	1.0	0.8	5.25	750X110051	750X110014
2,500:5	0.3 thru B1.8	C200	1.0	0.8	5.25	750X110052	750X110015
3,000:5	0.3 thru B1.8	C200	1.0	0.8	5.25	750X110053	750X110016
4,000:5	0.3 thru B1.8	C100	1.0	0.8	5.25	750X110054	750X110017
Multi-Ratio (IEEE C57.13)							
1,200:5MR	0.3 thru B1.8	C200	2.0	1.5	5.25	750X110069	---
2,000:5MR	0.3 thru B1.8	C200	1.0	0.8	5.25	750X110070	---
*2,000:5	0.3 thru B1.8	C200	1.0	0.8	5.25	750X110073	---
3,000:5MR	0.3 thru B1.8	C200	1.0	0.8	5.25	750X110071	---
4,000:5MR	0.3 thru B1.8	C100	1.0	0.8	5.25	750X110072	---

Notes: *Ψ Other window diameters are available for special applications, consult factory.*
Ø Other ratios are available for special applications, consult factory.
*** Non-standard taps 200/400/600/800/1200/1400/1600/1800/2000:5*

JCS-0C Dimensions



Construction and Insulation

The core and coil are enclosed in a case 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.

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 No. 10-32 brass screws with one flat washer and one lock washer. Because the transformer is used primarily in enclosed, switchgear compartments, which cannot be opened while the transformer is energized, a secondary shorting device and terminal cover are not provided.

Polarity

Primary and secondary polarity marks H1 and X1 are marked on the face of the transformer.

Primary Conductor

A bus or insulated cable forms the primary winding.

Nameplates

The nameplate is a polyester label attached to the face of the transformer.

Baseplate and Mounting

The transformer can be mounted in any position. The base plate is made of heavy steel plate. It is attached to the transformer with two bolts. If the base plate is not used, the 3/8-16 tapped holes in the bottom surface are used for mounting.

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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English
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