



Indoor Voltage Transformer

Model JVM-6C 125kV BIL, 12000-24000V

GEA-12645



APPLICATION	
Designed for indoor service; suitable for operating meters, instruments, relays and control devices.	
THERMAL RATING (VOLT-AMPERES)	
55°C Rise above 30°C Ambient1500 VA
30°C Rise above 55°C Ambient1000 VA
WEIGHT	
(Approximate)125 lbs
REFERENCE DRAWINGS	
Outline (Single bushing)0172C17424
Outline (Two bushing)0172C14059
INSULATION LEVEL	
25 kV; BIL: 125 kV Full Wave	
FREQUENCY	
60Hz	

JVM-6C DATA TABLE									
Circuit Line to Line Voltage For Permissible Primary Connection			Transformer Rating		ANSI Accuracy Classification, 60 Hz				Catalog Number Supplied without Fuses
					Burden Per ANSI		Operated at 58% of Rated Voltage, but Burden Impedance as at Rated Voltage ⁽²⁾		
					Operated at Rated Voltage	Operated at 58% of Rated Voltage			
Δ	Y	Y Only ⁽¹⁾	Primary Voltage ⁽¹⁾	Ratio					
Single Bushing Transformers									
---	---	12,000/20,780	12,000	100:1	0.3 W, X, M, Y, Z; 1.2 ZZ		---	---	766X121001
---	---	14,400/24,940	14,400	120:1	0.3 W, X, M, Y, Z; 1.2 ZZ		---	---	766X121002
18,000	18,000	---	18,000	150:1	0.3 W, X, M, Y, Z; 1.2 ZZ		---	0.3 W, X, M, Y, Z	766X121003
24,000	24,000	---	24,000	200:1	0.3 W, X, M, Y, Z; 1.2 ZZ		---	0.3 W, X, M, Y, Z	766X121004
14,400	14,400	---	14,400	120:1	0.3 W, X, M, Y, Z; 1.2 ZZ		0.3 W, X, M, Y; 1.2 ZZ	0.3 W, X, M, Y, Z	---
14,400	14,400	---	14,400	120:1	0.3 W, X, M, Y, Z; 1.2 ZZ		0.3 W, X, M, Y; 1.2 ZZ	0.3 W, X, M, Y, Z	766X121011

- Notes:
- (1) For continuous operation, the transformer's rated primary voltage should not be exceeded by more than 10%. Under emergency conditions, over-voltage must be limited to 1.25 times the transformer primary voltage rating.
 - (2) The prime symbol (') is used to signify that these burdens do not correspond to standard ANSI definitions.
 - (3) For Y connections, it is preferred practice to connect one lead from each voltage transformer directly to the grounded neutral, using a fuse only in the line side of the primary. By this connection a transformer can never be "alive" from the line side by reason of a blown fuse on the grounded side. Two fuses are recommended for line-to-line operation.
 - (4) Voltage transformers connected line-to-ground cannot be considered to be grounding transformers and must not be operated with the secondaries in closed delta because excessive currents may flow in the delta. If ferroresonance is a concern however, the secondaries may be connected in open delta with suitable power resistor connected across the broken corner to damp ferroresonance. For these transformers the recommended resistor value is 82 Ohms. The resistor and its power rating are determined by the user.

Construction and Insulation

The core and coil assembly is vacuum encapsulated in 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 cores are made from high quality grain oriented silicon steel, which is annealed under rigidly controlled factory conditions. Primary and secondary windings are layer wound using precision, semi-automatic winders.

Primary Terminals

Primary terminals on both single and two bushing designs are 3/8"-16 brass screws with one flat washer and one lock washer. A primary terminal kit is available, Part No. 0882B06446. This kit includes 3/8"-16 terminal screws, terminal boots and 48" of No. 6, 15 kV lead wire.

Secondary Terminals

Secondary terminals are 1/4"-20 brass screws with one flat washer and one lock washer.

Polarity

The primary and secondary polarity markers H1, X1 are molded in the insulation. They are thus permanent and integral parts of the transformer and cannot be readily obliterated. They are also marked white.

Nameplates

The nameplate is laser engraved aluminum. The voltage rating of the transformer is marked on the side in large numerals.

Base plate and Mounting

The base is made of stainless steel plate. It is provided with holes and slots for mounting. The transformer may be mounted in any orientation.

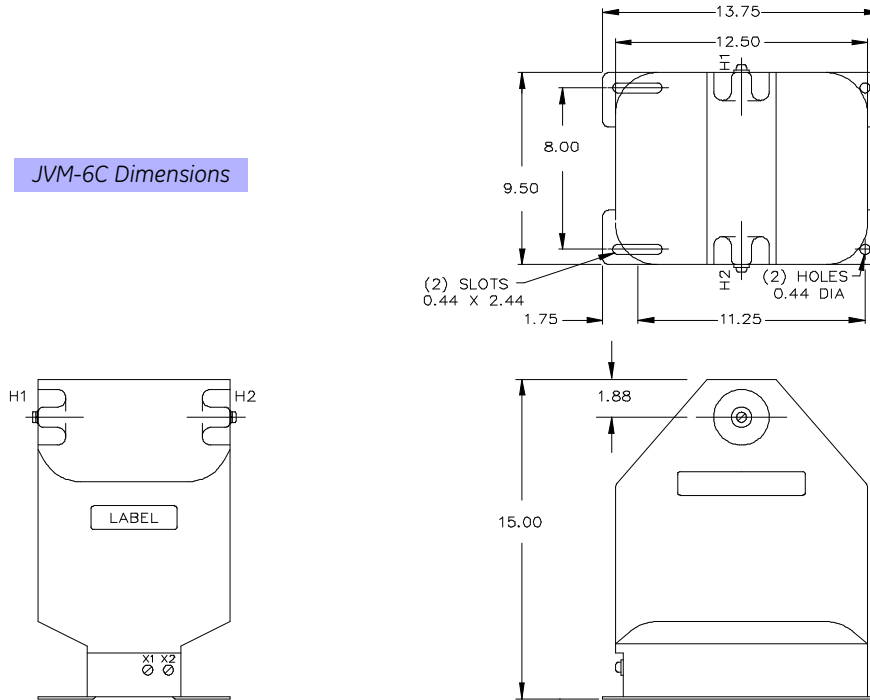
Maintenance

These transformers require no maintenance, other than occasional cleaning.

Data subject to change without notice

To purchase or obtain more information about GE Instrument Transformer products, please call GE Multilin at 1-800-547-8629. Product information is also available on our web site at <http://www.GEMultilin.com>. Click on the Product Index button (right column), select Transformers and follow the menus to **Product Information** or a **Solutions Advisor**.

JVM-6C Dimensions



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