



Indoor High Accuracy Voltage Transformer

Model JVM-4AC/5AC 75-110kV BIL, 4200-14400V

GEA-13357



APPLICATION

Designed for indoor service; suitable for operating meters, instruments, relays and control devices.

REGULATORY AGENCY APPROVALS

UL RecognizedFile E145172

THERMAL RATING (VOLT-AMPERES)

55°C Rise above 30°C Ambient2000 VA

30°C Rise above 55°C Ambient1400 VA

WEIGHT (Approximate)

Unfused85 lbs

Fused88 lbs

REFERENCE DRAWINGS

Outline0162C33853

JVM-4AC/5AC DATA TABLE

Circuit Line to Line Voltage	Permissible Transformer Primary Connection	Transformer Rating		ANSI Accuracy Classification, 60 Hz		BIL	Catalog Number Supplied without Fuses	Primary Fuse Rating	
		Primary Voltage ⁽¹⁾	Ratio	Burden Per ANSI				Amps	Volts
				Operated at Rated Voltage	Operated at 58% of Rated Voltage				
JVM-4AC Unfused									
4200	Δ or Y	4200	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121001	---	---
7200	Y only								
4800	Δ or Y	4800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121002	---	---
8320	Y only								
7200	Δ or Y	7200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121003	---	---
JVM-4AC With One Primary Fuse									
4200	Y only	4200 ⁽⁴⁾	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z ⁽²⁾	75 kV	764X121010	2 A	4800
7200	Y only	4200 ⁽⁴⁾	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121011	2 A	7200
4800	Y only	4800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z ⁽²⁾	75 kV	764X121012	2 A	4800
7200	Y only	7200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z ⁽²⁾	75 kV	764X121013	1 A	7200
JVM-4AC With Two Primary Fuses									
4200	Δ or Y only ⁽³⁾	4200	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121021	2 A	4800
4800	Δ or Y only ⁽³⁾	4800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121022	2 A	4800
7200	Δ or Y only ⁽³⁾	7200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121023	1 A	7200
JVM-5AC Unfused									
7200	Δ or Y	7200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123001	---	---
12470	Y only								
7620	Δ or Y	7620	63.5:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123002	---	---
13200	Y only								
8400	Δ or Y	8400	70:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123003	---	---
14400	Y only								
12000	Δ or Y	12000	100:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123004	---	---
13200	Δ or Y	13200	110:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123005	---	---
14400	Δ or Y	14400	120:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123006	---	---
JVM-5AC With One Primary Fuse									
7200	Y only	7200 ⁽⁴⁾	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z ⁽²⁾	110 kV	765X123010	1 A	7200
12470	Y only	7200 ⁽⁴⁾	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123011	1 A	14400
7620	Y only	7620	63.5:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123012	1 A	14400
8400	Y only	8400	70:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123013	1 A	14400
12000	Y only	12000	100:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z ⁽²⁾	110 kV	765X123014	1 A	14400
13200	Y only	13200	110:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z ⁽²⁾	110 kV	765X123015	1 A	14400
14400	Y only	14400	120:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z ⁽²⁾	110 kV	765X123016	1 A	14400
JVM-5AC With Two Primary Fuses									
7200	Δ or Y only ⁽³⁾	7200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123020	1 A	7200
12000	Δ or Y only ⁽³⁾	12000	100:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123024	1 A	14400
13200	Δ or Y only ⁽³⁾	13200	110:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123025	1 A	14400
14400	Δ or Y only ⁽³⁾	14400	120:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123026	1 A	14400

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) With ANSI 69 Volt burden.
- (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.
- (4) Although these pairs of transformers have the same voltage rating and turns ratio and are otherwise identical, they are supplied with fuses having different voltage ratings to suit the operating voltage of the application. This difference necessitates a separate catalog number to differentiate them.

Construction and Insulation

The core and coil are placed in a mold and vacuum encapsulated in a polyurethane resin.

Core

The cores are made from high quality grain oriented silicon steel, which is annealed under rigidly controlled factory conditions.

Primary Terminals

Primary terminals on unfused units are 1/4"-20 brass screws with one flat washer and one lock washer. On fused units, primary terminals are 1/4"-20 brass studs with one flat washer, one lock washer and two nuts.

Secondary Terminals

Secondary terminals are compression type with a 0.275" cross-hole and a 1/4"-28 clamp screw. The terminal cover is made of transparent plastic. Provision is made for sealing the cover.

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.

Fuses

Fuses are current limiting, "E" rated with 1.625" diameter caps. Clip centers are 11.50" for 14.4 kV fuses, 8.25" for 7.2 kV fuses, and 5.88" for 4.8 kV fuse.

Nameplates

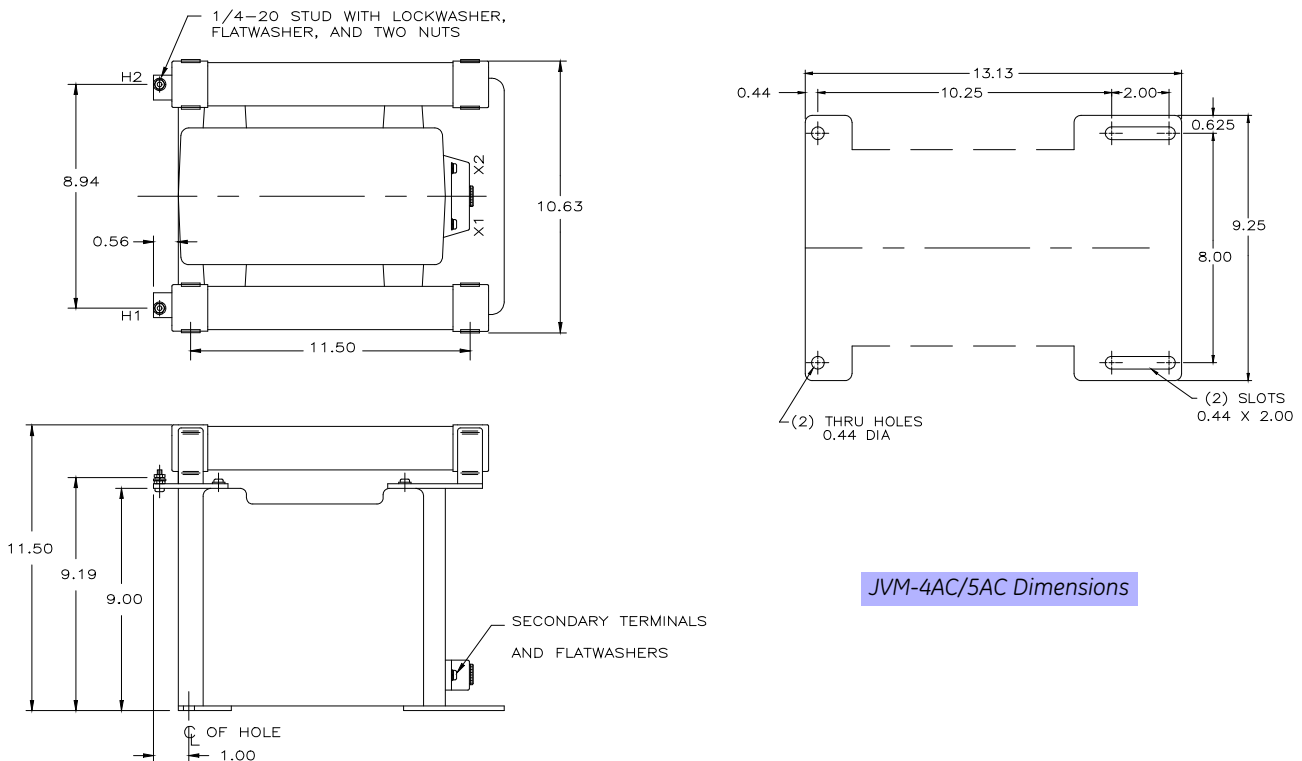
The nameplate is laser engraved aluminum. It is mounted on the base of the transformer. Provision is made for attaching the user's identifying tag.

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-4AC/5AC Dimensions

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