Grid Solutions

MODEL JVM-4AC

Indoor High Accuracy Voltage Transformer

75-110 kV BIL, 4,200-14,400 V

Application

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

Thermal Rating

55°C Rise above 30°C Ambient..... 2,000 VA
55°C Rise above 30°C Ambient.....1,400 VA

Weight

Unfuse ..... 85 lbs.
Fused ..... 88 lbs.

Reference Drawings

Outline..... 0162C33853

Model JVM-4AC

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[1] VOLTAGE	RATIO	BURDEN PER ANSI				Amps	Volts
				OPERATED AT RATED VOLTAGE	OPERATED AT 58 % OF RATED VOLTAGE				
JVM-4AC Unfused									
4,200 7,200	△ or Y Y only	4,200	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121001	---	---
4,800 8,320	△ or Y Y only	4,800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121002	---	---
7,200	△ or Y	7,200	60:1	0.15 W, X, M, Y	0.3 W. X, M, Y, Z	75 kV	764X121003	---	---
JVM-4AC With One Primary Fuse									
4,200	Y only	4,200[4]	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z [2]	75 kV	764X121010	2 A	4800
7,200	Y only	4,200[4]	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121011	2 A	7200
4,800	Y only	4,800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z [2]	75 kV	764X121012	2 A	4800
7,200	Y only	7,200	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									
4,200	△ or Y only [3]	4,200	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121021	2 A	4800
4,800	△ or Y only [3]	4,800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121022	2 A	4800
7,200	△ or Y only [3]	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764XI21023	1 A	7200

Notes: Check notes on page 2

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Notes:

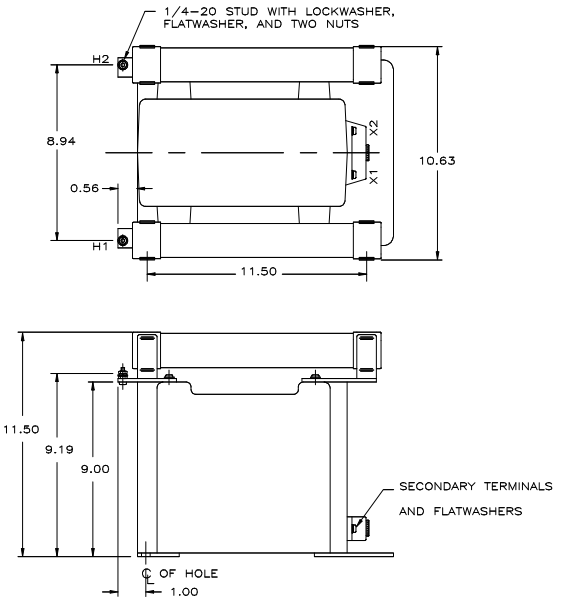
(1) For continuous operation, the transformer's rated primary voltage should not be exceeded by more than 10%. Under emergency conditions, over-voltage must be limited to 1.25 times the transformer primary voltage rating.

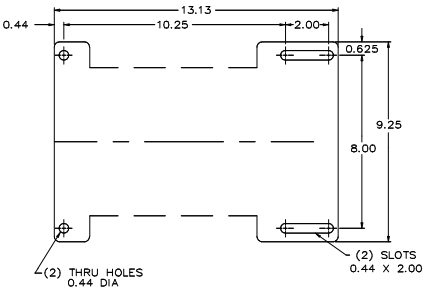
(2) With ANSI 69 Volt burden.

(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.

JVM-4AC Dimensions





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.

For more information, visit
gevernova.com/grid-solutions

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English
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