# GE Grid Solutions

# Model JVM-4C/5C

# Indoor 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.

# **Regulatory Agency Approvals**

UL Recognized .....File E145172

# **Thermal Rating**

55 °C Rise above 30 °C Ambient...1,500 VA 30 °C Rise above 55 °C Ambient...1,000 VA

# Weight

Unfused	.85 lbs
Fused	.88 lbs



## **Reference Drawings**

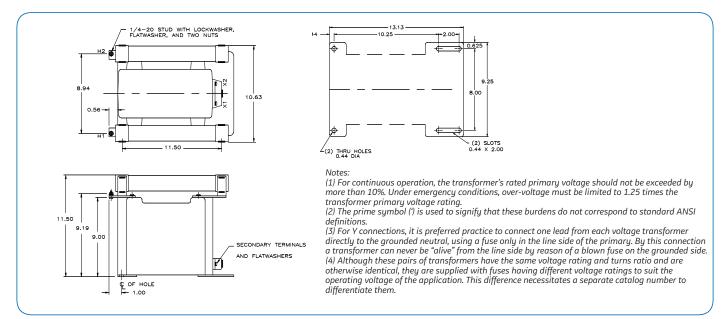
Outline .....0162C33853

# JVM-4C/5C Data Table

Circuit Line to Line Voltage	Permissible Transformer Primary Connection	Transformer Rating		ANSI Accuracy Classification 60 Hz				Catalan		Primary Fuse Rating	
		Primary Voltage (1)	Ratio	Burden F	Per ANSI Operated at 58 %	Operated at 58 % of Fuse Rating Rated Voltage, but Burden Impedance		Catalog Number Supplied	Catalog Number Supplied	Amps	Volts
		Connection	voitage (1)		Voltage	of Rated Voltage	as at Rated Voltage (2)		with Fuses	without Fuse	
					JVM-4C U	Infused					
4,200 7,200	∆ or Y Y only	4,200	35:1	Accuracy 1	Accuracy 2	Accuracy 3	75 kV		764X120001		
4,800 8,320	∆ or Y Y only	4,800	40:1	Accuracy 1	Accuracy 2	Accuracy 3	75 kV		764X120002		
7,200	Δ or Y	7,200	60:1	Accuracy 1	Accuracy 2	Accuracy 3	75 kV		764X120003		
					JVM-4C With On	e Primary Fuse					
4,200	Y only	4,200 (4)	35:1		Accuracy 2	Accuracy 3	75 kV	764X120021		2 A	4800
7,200	Y only	4,200 (4)	35:1	Accuracy 1			75 kV	764X120023	764X120025	2 A	7200
4,800	Y only	4,800	40:1		Accuracy 2	Accuracy 3	75 kV	764X120022	764X120026	2 A	4800
7,200	Y only	7,200	60:1		Accuracy 2	Accuracy 3	75 kV	764X120024	764X120028	1 A	7200
					JVM-4C With Two	o Primary Fuses					
4,200	Δ or Y <sup>(3)</sup>	4,200 (4)	35:1	Accuracy 1	Accuracy 2	Accuracy 3	75 kV	764X120012		2 A	4800
4,200	$\Delta$ or Y $^{(3)}$	4,200 (4)	35:1	Accuracy 1			75 kV	764X120015	764X120018	2 A	7200
4,800	Δ or Y <sup>(3)</sup>	4,800	40:1	Accuracy 1	Accuracy 2	Accuracy 3	75 kV	764X120013	764X120019	2 A	4800
7,200	$\Delta$ or Y $^{(3)}$	7,200	60:1	Accuracy 1	Accuracy 2	Accuracy 3	75 kV	764X120016	764X120020	1 A	7200
					JVM-5C U	Infused					
7,200 12,470	∆ or Y Y only	7,200	60:1	Accuracy 1	Accuracy 2	Accuracy 3	110 kV		765X121001		
8,400 14,400	∆ or Y Y only	8,400	70:1	Accuracy 1	Accuracy 2	Accuracy 3	110 kV		765X121002		
12,000	Δ or Y	12,000	100:1	Accuracy 1	Accuracy 2	Accuracy 3	110 kV		765X121003		
14,400	Δ or Y	14,400	120:1	Accuracy 1	Accuracy 2	Accuracy 3	110 kV		765X121004		
					JVM-5C With On	e Primary Fuse					
7,200	Y only	7,200 (4)	60:1		Accuracy 2	Accuracy 3	110 kV	765X121053	765X121061	1 A	7200
12,470	Y only	7,200 (4)	60:1	Accuracy 1			110 kV	765X121048	765X121056	1 A	14400
14,400	Y only	8,400	70:1	Accuracy 1			110 kV	765X121049	765X121057	1 A	14400
12,000	Y only	12,000	100:1		Accuracy 2	Accuracy 3	110 kV	765X121050	765X121058	0.5 A	14400
14,400	Y only	14,400	120:1		Accuracy 2	Accuracy 3	110 kV	765X121051	765X121059	0.5 A	14400
					JVM-5C With Two	o Primary Fuses					
7,200	Δ or Y <sup>(3)</sup>	7,200 <sup>(4)</sup>	60:1	Accuracy 1	Accuracy 2	Accuracy 3	110 kV	765X121031	765X121047	1 A	7200
12,470	Y only <sup>(3)</sup>	7,200 (4)	60:1	Accuracy 1			110 kV	765X121027	765X121043	1 A	14400
8,400 14,400	∆ or Y Y only <sup>(3)</sup>	8,400	70:1	Accuracy 1	Accuracy 2	Accuracy 3	110 kV	765X121028	765X121044	1 A	14400
12,000	Δ or Y <sup>(3)</sup>	12,000	100:1	Accuracy 1	Accuracy 2	Accuracy 3	110 kV	765X121029	765X121045	0.5 A	14400
14,400	$\Delta$ or Y $^{(3)}$	14,400	120:1	Accuracy 1	Accuracy 2	Accuracy 3	110 kV	765X121030	765X121046	0.5 A	14400



# Model JVM-4C/5C Dimensions



## JVM-4C/5C

Accuracy 1 Operated at Rated Voltage		Accuracy 2	2	Accuracy 3		
		Operated at 58 % of Rated Voltage		Operated at 58 % of Rated Voltage with Burden Impedance as at Rated Voltage		
0.3 W, X, M, Y, Z;	1.2 ZZ	0.3 W, X, M, Y;	1.2 Z	0.3 W', X', M', Y', Z		

#### **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" crosshole 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 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.

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#### 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.

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