



Indoor Voltage Transformer

Model JVM-2C/3C – 60 kV BIL, 2400 - 4800 V



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 Ambient750VA
30 °C Rise above 55 °C Ambient500VA

Weight

(approximate)
Unfused34 lbs
Fused37 lbs

Reference Drawings:

Outlines:0142C33852

DATA TABLE

Circuit Line to Line Voltage	Permissible Transformer Primary Connection	Transformer Rating		ANSI Accuracy Classification, 60 HZ			Catalog Number	Primary Fuse Rating	
				Burden Per ANSI		Operated at 58% Rated Voltage, but Burden Impedance as at Rated Voltage (2)		Amps	Volts
		Primary Voltage (1)	Ratio	Operated at Rated Voltage	Operated at 58% of Rated Voltage				
Unfused									
2400	Δ or Y	2400	20:1	0.3 W, X, M, Y; 1.2 Z	0.3 W, X; 1.2 M, Y	0.3 W', X', M', Y'; 1.2 Z'	763X121001	-	-
4160	Y only								
4200	Δ or Y	4200	35:1	0.3 W, X, M, Y; 1.2 Z	0.3 W, X; 1.2 M, Y	0.3 W', X', M', Y'; 1.2 Z'	763X121002	-	-
4800	Δ or Y	4800	40:1	0.3 W, X, M, Y; 1.2 Z	0.3 W, X; 1.2 M, Y	0.3 W', X', M', Y'; 1.2 Z'	763X121003	-	-
With One Primary Fuse									
2400	Y only	2400 (4)	20:1	-	0.3 W, X; 1.2 M, Y	0.3 W', X', M', Y'; 1.2 Z'	763X121042	2 A	2400
4160	Y only	2400 (4)	20:1	0.3 W, X, M, Y; 1.2 Z	-	-	763X121033	2 A	4800
4200	Y only	4200	35:1	-	0.3 W, X; 1.2 M, Y	0.3 W', X', M', Y'; 1.2 Z'	763X121031	1 A	4800
4800	Y only	4800	40:1	-	0.3 W, X; 1.2 M, Y	0.3 W', X', M', Y'; 1.2 Z'	763X121032	1 A	4800
With Two Primary Fuses									
2400	Δ or Y (3)	2400 (4)	20:1	0.3 W, X, M, Y; 1.2 Z	0.3 W, X; 1.2 M, Y	0.3 W', X', M', Y'; 1.2 Z'	763X121040	2 A	2400
4160	Y only	2400 (4)	20:1	0.3 W, X, M, Y; 1.2 Z	-	-	763X121024	2 A	4800
4200	Δ or Y (3)	4200	35:1	0.3 W, X, M, Y; 1.2 Z	0.3 W, X; 1.2 M, Y	0.3 W', X', M', Y'; 1.2 Z'	763X121018	1 A	4800
4800	Δ or Y (3)	4800	40:1	0.3 W, X, M, Y; 1.2 Z	0.3 W, X; 1.2 M, Y	0.3 W', X', M', Y'; 1.2 Z'	763X121019	1 A	4800

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 if 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 enclosed in a plastic case, molded with GE Valox® thermoplastic polyester resin. This tough material has excellent electrical and mechanical properties over a wide temperature range and is resistant to oil and a variety of chemicals. The core and coil assembly is then 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 No. 10-32 brass screws with one flatwasher and one lockwasher.

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 with white paint.

Fuses

Fuses are current limiting, "E" rated with 1" diameter caps and 5" clip centers.

Base plate and Mounting

The base is made of heavy steel plate and is provided with holes and slots adapting it for mounting by either bolts or pipe clamps.

Nameplate

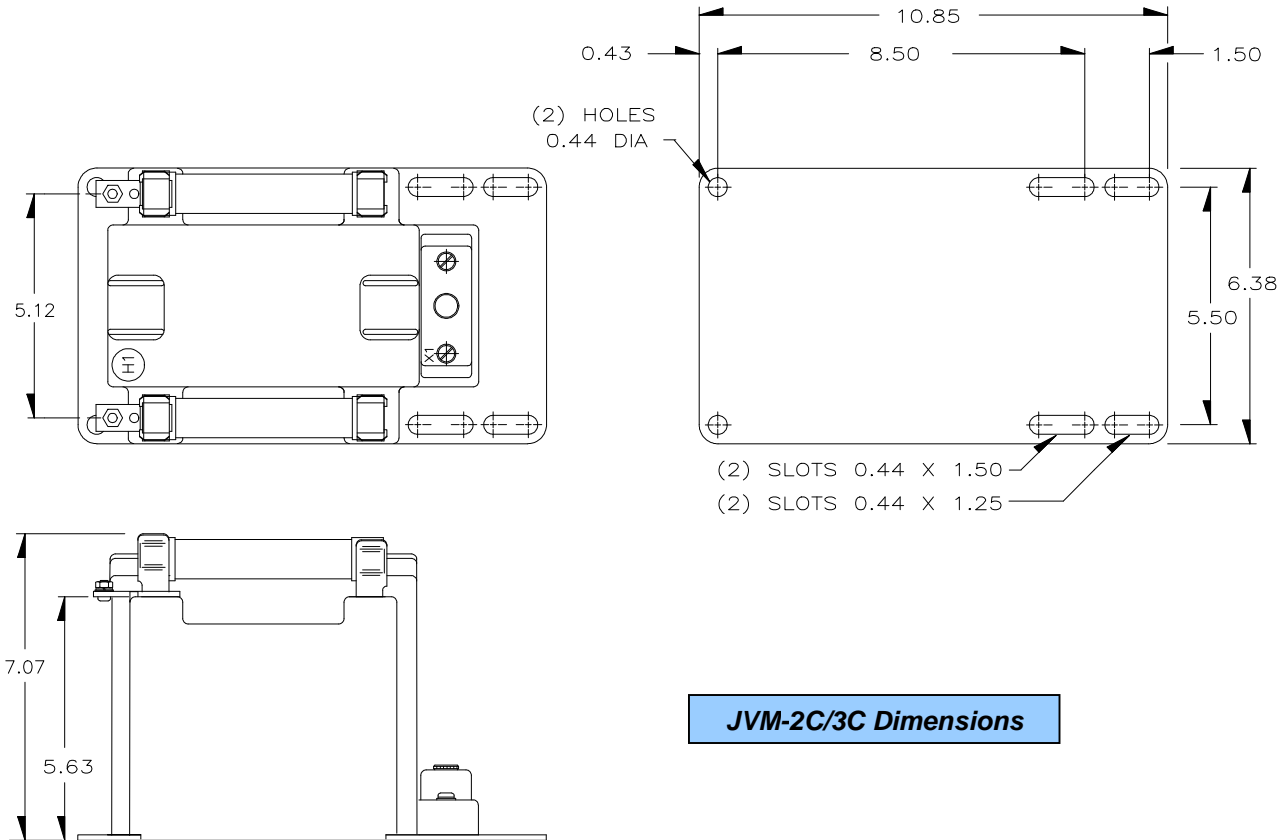
The nameplate is laser engraved aluminum. It is mounted on the base of the transformer. Provision is made for attaching the user's identifying tag.

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's Charlotte Service Center at 1-800-431-7867. Product information is also available on our web site at <http://www.GEIndustrial.com>. Click on the Product Index button (right column), select Transformers and follow the menus to **Product Information** or a **Solutions Advisor**.



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