GE
Grid Solutions

Model JVM-3

Indoor Voltage Transformer
2,400 V to 4,800 V, BIL 60 kV, 50/60 Hz

Application

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

Regulatory Agency Approvals

UL Recognized ..... File E178265

Thermal Rating (Volt-Amperes)

55 °C Rise above 30°C Ambient 750
55 °C Rise above 30°C Ambient 500

Weight

(approximate, in pounds)
Unfused 35/30
With Fuses 38/33

Reference Drawings

Accuracy Curve 9689241268
Excitation Curve 5454043

Outline Drawings:

Unfused 8949739
One/Two Fuse; –040 and –042 9926292
One Fuse; –033, –31, –32 8949740
Two Fuse; –024, –18, –19 8949741
Wiring Diagram ..... refer to page 42, figure 5

Accessories - Catalog Number

Fuses:
2,400 Volt Class, 1 Ampere 9F60AAB001
4,800 Volt Class, 1 Ampere 9F60BBD001
4,800 Volt Class, 0.5 Ampere 9F60BBD905
Secondary Terminal Conduit Box 9925183001

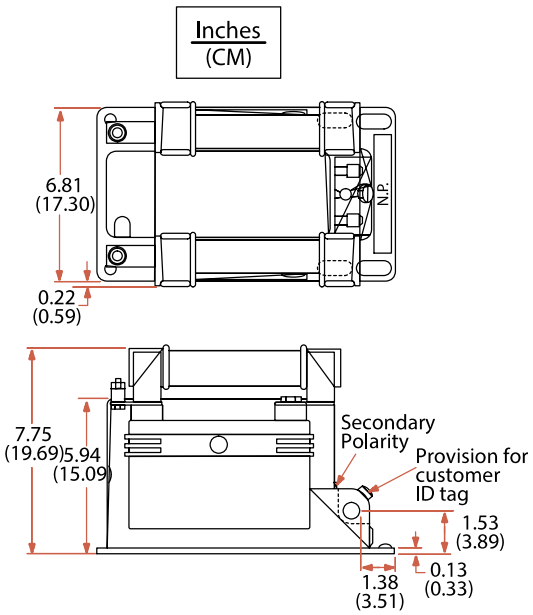
JVM-2 Voltage Transformer (two-fuse design)

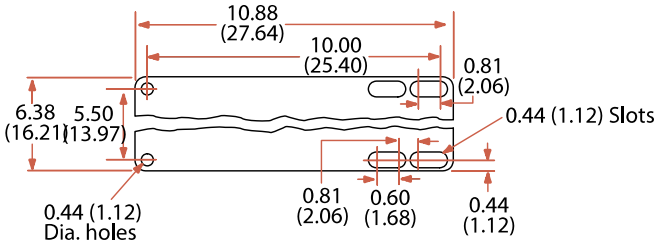
JVM-3 Data Table

Line-To-Line Circuit Voltage for Permissible Primary Connection			Transformer Rating [1]		ANSI Accuracy Classification, 60 Hz				Primary Fuse Ratings	
Δ	Y	Y Only	Primary Voltage	Ratio	Operated at Rated Voltage	Operated at 58 % of Rated Voltage	Burden Impedance at Rated Voltage, but Operated at 58 % Rated Voltage [2]	Catalog Number [4]	Amps	Volts
Unfused										
2,400	2,400	4,160	2,400	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	763X021001	---	---
4,200	4,200	--	4,200	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	763X021002	---	---
4,800	4,800	--	4,800	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	763X021003	---	---
With One Primary Fuse										
--	--	2,400	2,400	20:1	--	0.3 W, X; 1.2 M, Y	0.3 W', X', M', Y'; 1.2 Z	763X021042	1 A	2,400
--	--	4,160	2,400	20:1	0.3 W, X, M, Y; 1.2 Z	--	--	763X021033	1 A	4,800
--	--	4,200	4,200	35:1	--	0.3 W, X; 1.2 M, Y	0.3 W', X', M', Y'; 1.2 Z	763X021031	0.5 A	4,800
--	--	4,800	4,800	40:1	--	0.3 W, X; 1.2 M, Y	0.3 W', X', M', Y'; 1.2 Z	763X021032	0.5 A	4,800
With Two Primary Fuses										
2,400	--	2,400 [3]	2,400	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	763X021040	1 A	2,400
--	--	4,160	2,400	20:1	0.3 W, X, M, Y; 1.2 Z	--	--	763X021024	1 A	2,400
4,200	--	4,200 [3]	4,200	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	763X021018	0.5 A	4,800
4,800	--	4,800 [3]	4,800	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	763X021019	0.5 A	4,800

Notes:
1) For continuous operation, the transformer-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) Operated at 58 % of Rated Voltage; 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.
4) Measurement Canada Approval: AE-0372

JVM-3 Dimensions





JVM-3 Mechanical Dimensions

Construction and Insulation

Please refer to General Product Information, item 1.8.

Core

Please refer to General Product Information, item 2.3.

Coils

Please refer to General Product Information, item 3.8.

Primary Terminals

Please refer to General Product Information, item 4.2.

Fuses

Current-limited, Type EJ-1 fuses are used.

Secondary Terminals

Please refer to General Product Information, item 4.12.

Polarity

Please refer to General Product Information, item 7.2.

Baseplate and Mounting

Please refer to General Product Information, item 5.5.

Nameplate

Please refer to General Product Information, item 6.5.

Maintenance

Please refer to General Product Information, item 10.1 and pages 24-27.

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