MODEL JVM-4A

Indoor Voltage Transformer

4,200 V to 14,400 V,
BIL 75 kV to 110 kV, 60 Hz

JVM-4A Voltage Transformer (two-fuse design)

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

Weight (Approximate in Pounds)

Unfused 105/85
Fused 110/90

Reference Drawings

Accuracy Curve..... 9932600137

Excitation Curves:

JVM-4A; 60:1 and 70:1 9689241591
JVM-4A; 100:1 and 120:1..... 9689241629

GE VERNOVA

JVM-4A (two-fuse design)

LINE-TO-LINE CIRCUIT VOLTAGE FOR PERMISSIBLE PRIMARY CONNECTION			TRANSFORMER RATING (1)		ACCURACY CLASSIFICATION 60 Hz		BIL	CATALOG NUMBER	PRIMARY FUSE RATINGS	
Δ	Y	Y ONLY	PRIMARY VOLTAGE	RATIO	ACCUBUTE	ANSI			Amps	Volts
Unfused - JVM-4A										
4,200	4,200	7,200	4,200	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X021001	---	---
4,800	4,800	8,320	4,800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X021002	---	---
7,200	7,200	---	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X021003	---	---
One Primary Fuse - JVM4A										
---	---	4,200	4,200 (3)	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z (2)	75 kV	764X021010	2 A	4,800
		7,200	4,200	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X021011	2 A	7,200
		4,800	4,800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z (2)	75 kV	764X021012	2 A	4,800
		7,200	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z (2)	75 kV	764X021013	1 A	7,200
Two Primary Fuses - JVM-4A										
4,200	---	4,200 (4)	4,200	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X021021	2 A	4,800
4,800	---	4,800 (4)	4,800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X021022	2 A	4,800
7,200	---	7,200 (4)	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X021023	1 A	7,200

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) ANSI 69 Volt burden.

(3) This transformer is similar to Catalog Number 764X021011 except for the voltage rating of the fuse.

(4) 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.

(5) This transformer is similar to Catalog Number 765X023011 except for the voltage rating of the fuse.

Indoor – Voltage – JVM-4A

Reference Drawings (con't)

Outline Drawings: JVM-4A

Unfused 8949818
One Fuse..... 8949938
Two Fuses..... 8949820

Outline Drawings: JVM-4A

Unfused 9935471
One Fuse (except Model 765X023010)..... 9935473
One Fuse (Model 765X023010 only) 9935472
Two Fuses (except Model 965X023020) 9935475
Two Fuses (Model 765X023020 only) 9935474
Wiring Diagram.....refer to page 42, figure 5

Accessories ..... Catalog Number

Fuses, Current-limiting, Type EJ-1:

4,800 Volt Class, 1 Ampere 9F60BDD001
4,800 Volt Class, 2 Ampere..... 9F60BDD002
7,200 Volt Class, 1 Ampere..... 9F60BDE001
7,200 Volt Class, 2 Ampere 9F60BDE002
14,400 Volt Class, 0.5 Ampere..... 9F60BHH905

Construction and Insulation

Please refer to General Product Information, item 1.4.

Core

Please refer to General Product Information, item 2.3.

Primary and Secondary Coils

Please refer to General Product Information, item 3.2.

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 5.6.

Nameplate

Please refer to General Product Information, item 6.5.

Maintenance

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

For more information, visit
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