24,000 V to 69,000 V Outdoor Voltage, Dry-Type

JVS/JVT

60 Hz

JVS single-bushing SUPER-BUTE voltage transformer

JVT two-bushing SUPER-BUTE voltage transformer

Application

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

ANSI Meter Accuracy Classification; 60 Hz

JVS Model

Burden Per ANSI W, X, M, Y, Z, ZZ; all models 0.3

Note: Accuracy is for tap as well as full winding

Weight - Shipping/Net

(approximate, in pounds)

JVS below 27,600 V; JVT below 46,000 V 280/240

JVS 27,600 V and above 490/430

JVT 46,000 V and above 620/560

Reference Drawings

JVS

Accuracy Fan Curves at 120 Secondary Volts, 60 Hz:

- JVS-150/JVS-200 9689241521
- JVS-250/JVS-350 9689241485

Excitation Curves:

- JVS-150 9689241716
- JVS-200 9689241718
- JVS-250 9689241721
- JVS-350 9689241723

Outline Drawings:

- JVS-150/JVS-200 9926176
- JVS-250/JVS-350 9926369

Wiring Diagram JVS ..... refer to page 43, figure 8

JVS/JVT DATA TABLE

Line-To-Line Circuit Voltage For Permissible Primary Connection			Transformer Rating			ANSI Accuracy Burden Per ANSI			Thermal Rating 30°C Ambient		
						Operated at Rated Primary Voltage	Operated at 58% of Rated Primary Voltage ④				
Δ ③	Y ③	GY Only ②	Primary Voltage	Ratio	BIL (kV)	W, X, M, Y	Z	ZZ	kVA	Type	Catalog Number
---	---	24,000	14,400	120/200 & 120/200:1 ①	150	---	---	---	3.0	JVS-150	**766X030002**
24,000	24,000	---	24,000	200 & 200:1	150	0.3	0.6	1.2	3.0 ⑤	JVT-150	**766X030001**
27,600	27,600	---	27,600	240 & 240:1	200	0.3	0.6	1.2	3.0 ⑤	JVT-200	**767X030003**
---	---	34,500	20,125	175/300 & 175/300:1 ①	200	---	---	---	3.0	JVS-200	**767X030002**
34,500	34,500	---	34,500	300 & 300:1	200	0.3	0.6	1.2	3.0 ⑤	JVT-200	**767X030001**
---	---	46,000	27,600	240/400 & 240/400:1 ①	250	---	---	---	5.0	JVS-250	**768X030002**
46,000	46,000	---	46,000	400:1	250	0.3	0.3	0.6	4.5	JVT-250	**768X030001**
---	---	69,000	40,250	350/600 & 350/600:1 ①	350	---	---	---	5.0	JVS-350	**769X030002**
69,000	69,000	---	69,000	600:1	350	0.3	0.3	0.6	4.5	JVT-350	**769X030001**

Notes:

① Two tapped secondaries are provided, each with the ratio as shown.

② The single-bushing transformers are suitable for operation line-to-ground only on grounded systems. If it should become necessary to apply these voltage transformers to systems which are ungrounded or provided through high impedance, refer to the nearest General Electric Sales Office for a system analysis study. These voltage transformers are capable of operating at 173% of rated voltage for one minute without exceeding 175°C temperature rise.

③ These two-bushing transformers are designed for operation line-to-line. They may also be operated line-to-ground or line-to-neutral at reduced voltage (58% of rated voltage).

④ Applies to transformers wye-connected on a circuit in which the line-to-line voltage is the same as the transformer-rated primary voltage. In such cases the transformer is operated at 58% of the normal voltage. In determining the accuracy classification under such conditions, the burden volt-amperes are maintained at the valve obtained at full rated voltage.

⑤ With both secondary windings in parallel. When windings are used separately the value is 1.5 kVA per winding. If only one winding is used separately, the value is 2.0 kVA.

JVT

Accuracy Curves at 120 Secondary Volts, 60 Hz:
- JVT-150 / JVT-200 9689241520
- JVT-250 / JVT-350 9689241488

Excitation Curves:
- JVT-150 9689241717
- JVT-200 9689241720
- JVT-250 9689241722
- JVT-350 9689241724

Outline Drawings:
- JVT-150 / JVS-200 9926175
- JVT-250 / JVS-350 9926391

Wiring Diagram ..... refer to page 43, figure 7

Construction and Insulation

Please refer to General Product Information, item 1.3.

Bushing

Please refer to General Product Information, item 8.1.

Core

Please refer to General Product Information, item 2.1.

Coils

Please refer to General Product Information, item 3.1.

Primary

Terminals

Please refer to General Product Information, item 4.7.

Secondary

Terminals

Please refer to General Product Information, item 4.19.

Ground Pad

Please refer to General Product Information, item 4.25.

Conduit Box

Please refer to General Product Information, item 12.3.

Polarity

Please refer to General Product Information, item 7.1.

Baseplate and Mounting

Please refer to General Product Information, items 5.2 and 5.14.

Nameplate

Please refer to General Product Information, item 6.1.

Maintenance

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

Note:
1. Voltage transformers of this type are available for use in 50 Hz applications in many ratings. However, Industry Standard IEEE 57.13 to which we test transformers does not apply at 50 Hz. Customers who order voltage transformers for 50 Hz application should provide an accuracy specification including Burden VA and Power Factor. If an accuracy specification is not made available, the transformer(s) will be tested at 60 Hz with test burdens as defined in IEEE 57.13 for 60 Hz application.