

2,400 V to 14,400 V BIL 75 kV to 110 kV  
Outdoor Voltage  
**JVW-4/JVW-5**  
60 Hz



When choosing your GE Instrument Transformer, don't forget to explore the benefits of using GE's 0.15 accuracy class AccuBute line. See page 2.10.



JVW-4 -5, two-bushing model

### Application

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

### Thermal Rating (Volt-Amperes)

55°C Rise above 30°C Ambient ..... 1500

### ANSI Meter Accuracy Classification, 60 Hz

Operated at rated voltage  
W, X, M, Y, Z; all models ..... 0.3  
ZZ; all models ..... 1.2  
Operated at 58% of rated voltage ②  
W, X, M, Y; all models ..... 0.3  
Z; all models ..... 1.2  
Burden impedance as at rated voltage, but operated at 58% of rated voltage ③  
W', X' M', Y', Z'; all models ..... 0.3

### Weight - Shipping/Net

(approximate, in pounds)

Transformer ..... 120/105

### Reference Drawings

#### JVW-4

Accuracy Curve at  
120 Secondary Volts, 60 Hz ..... 9689241659

#### Excitation Curves:

60:1 & 70:1 ..... 9689241591  
100:1 & 120:1 ..... 9689241629

#### Outline Drawing; Two-Bushing

Transformer ..... 9932529  
Wiring Diagram ..... refer to page 42, figure 5

JVW-4/JVW-5 DATA TABLE

Line-To-Line Circuit Voltage For Permissible Primary Connection				Transformer Rating ①		Catalog Number		
						JVW-4	JVW-5	
Δ      Y      Y Only      GY Only ④				Primary Voltage      Ratio		BIL 75 kV	BIL 110 kV	
						Two-Bushing Model	Single-Bushing Model	Two-Bushing Model
2,400	2,400	4,160	---	2,400	20:1	764X030011	---	---
4,200	4,200	7,280	---	4,200	35:1	764X030012	---	---
4,800	4,800	8,320	---	4,800	40:1	764X030013	---	---
7,200	7,200	---	---	7,200	60:1	764X030014	---	---
---	---	---	7200 ⑤	7,200	60:1	---	765X030051	765X030042
---	---	---	8400 ⑥	8,400	70:1	---	765X030052	765X030044
12,000	12,000	12,000	---	12,000	100:1	---	---	765X030045
14,400	14,400	14,400	---	14,400	120:1	---	---	765X030046

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 for two-bushing models, and 1.40 times the rating for single-bushing models.
- ② Applies to transformers connected Y-Y on a circuit in which the line-to-line voltage is the same as the transformer-rated primary voltage. In each case, the transformer is operated with reduced voltage and reduced excitation (58% of normal). In

determining the accuracy classification under such conditions, the Volt-Ampere rating of the burden is maintained constant, regardless of the transformer secondary voltage.

- ③ The prime symbol (') is used to signify that these burdens do not correspond to standard ANSI definitions.
- ④ Single-bushing design with removable grounding strap.
- ⑤ 12,470 in Y configuration.
- ⑥ 14,560 in Y configuration.



Data subject to change without notice.

**JVV-5**

Accuracy Curve at  
120 Secondary Volts, 60 Hz ..... 9689241659

Excitation Curves:  
60:1 & 70:1 ..... 9689241591  
100:1 & 120:1 ..... 9689241629

Outline Drawings:  
Two-Bushing Model ..... 9932529  
Single-Bushing Model ..... 9932530

Wiring Diagram ..... refer to page 42, figure 5

**Accessories ..... Catalog Number**

Mounting Hardware

“L” Mounting Brackets ..... 8944634002  
Channel Bracket ..... 5466227001  
Suspension Hooks ..... 8944630001

Secondary Conduit Box ..... 9689897001

**Construction and Insulation**

Please refer to General Product Information, item 1.4.

**Core and Coils**

Please refer to General Product Information, item 3.8.

**Primary**

**Terminals**

Please refer to General Product Information, item 4.6.

**Secondary**

**Terminals**

Please refer to General Product Information, item 4.18.

**Ground Terminal**

Please refer to General Product Information, item 4.23.

**Conduit Box**

Please refer to General Product Information, item 12.1.

**Polarity**

Please refer to General Product Information, item 7.2.

**Baseplate and Mounting**

Please refer to General Product Information, items 5.3, 5.15, and the Applications Information Section of this volume.

**Nameplate**

Please refer to General Product Information, item 6.4.

**Rating Identification**

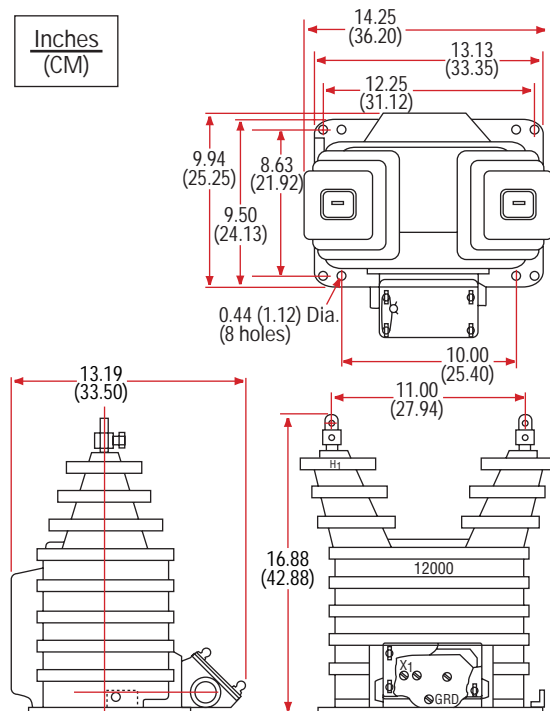
Please refer to General Product Information, item 13.1.

**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.



JVV-4/JVV-5 mechanical dimensions



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