Models JVM-4/JVM-5

**Indoor Voltage Transformer**
4,200 V to 14,400 V, BIL 75 kV to 110 kV, 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**
55 °C Rise above 30 °C Ambient...1,500 VA
30 °C Rise above 55 °C Ambient ...1,000 VA

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**JVM-4/JVM-5**

<table>
<thead>
<tr>
<th>Line-To-Line Circuit Voltage for Permissible Primary Connection</th>
<th>Transformer Rating (1)</th>
<th>ANSI Meter Accuracy Classification, 60 Hz</th>
<th>Catalog Number Supplied with Fuses (2)</th>
<th>Catalog Number Supplied without Fuse (1)</th>
<th>Primary Fuse Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Δ</td>
<td>Y Only</td>
<td>Ratio</td>
<td>Operated at Rated Voltage</td>
<td>Operated at 58% of Rated Voltage</td>
</tr>
<tr>
<td>4,200</td>
<td>4,200</td>
<td>4,200</td>
<td>35/1</td>
<td>Accuracy 1</td>
<td>Accuracy 2</td>
</tr>
<tr>
<td>4,800</td>
<td>4,800</td>
<td>8,320</td>
<td>40/1</td>
<td>Accuracy 1</td>
<td>Accuracy 2</td>
</tr>
<tr>
<td>7,200</td>
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<tr>
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<td>12,470</td>
<td>60/1</td>
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<td>Accuracy 3</td>
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<tr>
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<td>14,400</td>
<td>70/1</td>
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<td>Accuracy 3</td>
</tr>
<tr>
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<td>12,000</td>
<td>100/1</td>
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<td>Accuracy 3</td>
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<tr>
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<td>120/1</td>
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**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.
(4) 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 764X020015 except for the voltage rating of the fuse.
(6) Measurement Canada Approval: AE-0853 or AE-0314
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 5.5.

Nameplate
Please refer to General Product Information, item 6.5.

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

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.

Weight - Shipping/Net
(approximate, in pounds)
Unfused .................................................................105/85
With fuses ............................................................110/90

Reference Drawings
Accuracy Curve ................................................. 9689241655
Excitation Curves:
60:1 and 70:1 ..................................................... 9689241591
100:1 and 120:1 ................................................ 9689241629

Outline Drawings:
JVM-4
Unfused Models ................................................8949818
One Fuse Models ............................................. 8949938
Two Fuse Models ............................................. 8949820
JVM-5
Unfused Models ................................................8949818
One Fuse Models:
Model 765X021053 only ............................... 8949938
All except Model 765X021053 ............. 8949939
Two Fuse Models:
Model 765X021031 only ................................. 8949825
All except Model 765X021031 ............ 8949824

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

Accessories
Catalog Number
Fuses, Current-limiting, Type EJ-1:
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 .......................... 9F60BH905
14,400 Volt Class, 1 Ampere .......................... 9F60BH901

Construction and Insulation
Please refer to General Product Information, item 1.4.

Core
Please refer to General Product Information, item 2.3.

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