## Model JVM-4AC/5AC

### Indoor High Accuracy Voltage Transformer

#### 75-110 kV BIL, 4,200-14,400 V

#### Application

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

#### Regulatory Agency Approvals

UL Recognized ........................................ File E145172

#### Thermal Rating

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

#### Weight

- Unfused .................................................. 85 lbs
- Fused .................................................... 88 lbs

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#### Circuit Line to Line Voltage

<table>
<thead>
<tr>
<th>Transformer Rating</th>
<th>ANSI Accuracy Classification 60 Hz</th>
<th>BIL</th>
<th>Catalog Number</th>
<th>Primary Fuse Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Voltage</td>
<td>Ratio</td>
<td></td>
<td></td>
<td>Amps</td>
</tr>
<tr>
<td>Operated at Rated Voltage</td>
<td>Operated at 50 % of Rated Voltage</td>
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</tr>
</tbody>
</table>

#### Thermal Rating

- 55 °C Rise above 30°C Ambient....2,000 VA
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#### Notes:

1. Check notes on page 2.
Fuses
Fuses are current limiting, "E" rated with 1.625" diameter caps. Clip centers are 11.50" for 14.4 kV fuses, 8.25" for 7.2 kV fuses, and 5.88" for 4.8 kV fuse.

Nameplates
The nameplate is laser engraved aluminum. It is mounted on the base of the transformer. Provision is made for attaching the user’s identifying tag.

Maintenance
These transformers require no maintenance, other than occasional cleaning.

Notes:
(1) For continuous operation, the transformer’s 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) With ANSI 69 Volt burden.
(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) Although these pairs of transformers have the same voltage rating and turns ratio and are otherwise identical, they are supplied with fuses having different voltage ratings to suit the operating voltage of the application. This difference necessitates a separate catalog number to differentiate them.

Construction and Insulation
The core and coil are placed in a mold and vacuum encapsulated in a polyurethane resin.

Core
The cores are made from high quality grain oriented silicon steel, which is annealed under rigidly controlled factory conditions.

Primary Terminals
Primary terminals on unfused units are 1/4"-20 brass screws with one flat washer and one lock washer. On fused units, primary terminals are 1/4"-20 brass studs with one flat washer, one lock washer and two nuts.

Secondary Terminals
Secondary terminals are compression type with a 0.275" cross-hole and a 1/4"-28 clamp screw. The terminal cover is made of transparent plastic. Provision is made for sealing the cover.

Polarity
The primary and secondary polarity markers H1, X1 are molded in the insulation. They are thus permanent and integral parts of the transformer and cannot be readily obliterated. They are also marked white.