

MODEL JVM-2

Indoor Voltage Transformer

2,400 V, BIL 45 kV, 50/60 Hz

Application

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

Thermal Rating (Volt-Amperes)

55 °C Rise above 30 °C Ambient	750
30 °C Rise above 55 °C Ambient	500

Weight

(approximate, in pounds)	
Unfused	35/30
With one primary fuse	37/32
With two primary fuses	38/33



JVM-2 Voltage Transformer
(two primary fuses with fuse covers)

Reference Drawings

Accuracy Curve	9689241267
Excitation Curve	5454043

Outline Drawings:

Unfused with Primary Bushings	9925196
Unfused with Primary Terminal Cover.....	9925197
Single Fuse.....	9925198
Two Fuse	9925199
Wiring Diagram	refer to page 42, fig. 5

Accessories - Catalog Number

Fuses, 600 Volt Class, 1 Ampere	9F60AAB001
Secondary Terminal Conduit Box	9925183001

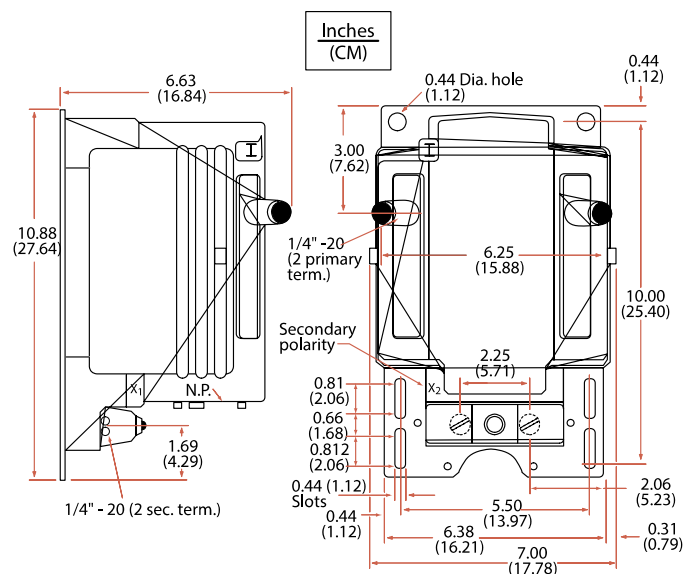
JVM-2

LINE-TO-LINE CIRCUIT VOLTAGE FOR PERMISSIBLE PRIMARY CONNECTION			TRANSFORMER RATING ⁽¹⁾		ANSI ACCURACY CLASS, 60 Hz				FUSE RATINGS	
Δ	Y	Y ONLY ⁽³⁾	PRIMARY VOLTAGE	RATIO	OPERATED AT RATED VOLTAGE	OPERATED AT 58 % OF RATED VOLTAGE	BURDEN IMPEDANCES AT RATED VOLTAGE, BUT OPERATED AT 58 % RATED VOLTAGE ⁽²⁾	CATALOG NUMBER ⁶	Amps	VOLTS
Primary Terminal Bushings										
2,400	2,400	4,160	2,400	20:1	0.3 W, X, M, Y; 1.2 Z	0.3 W, X; 1.2 M, Y	0.3 W; X', M', Y'; 1.2 Z'	762X022003	---	---
Primary Terminal Cover										
2,400	2,400	4,160	2,400	20:1	0.3 W, X, M, Y; 1.2 Z	0.3 W, X; 1.2 M, Y	0.3 W; X', M', Y'; 1.2 Z'	762X022004	---	---
One Fuse ⁽⁵⁾										
2,400	2,400	4,160 ⁽⁴⁾	2,400	20:1	0.3 W, X, M, Y; 1.2 Z	0.3 W, X; 1.2 M, Y	0.3 W; X', M', Y'; 1.2 Z'	762X022002	1A	2,400
Two Fuses										
2,400	2,400	4,160 ⁽⁴⁾	2,400	20:1	0.3 W, X, M, Y; 1.2 Z	0.3 W, X; 1.2 M, Y	0.3 W; X', M', Y'; 1.2 Z'	762X022001	1A	2,400

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) Operated at 58% of Rated Voltage; the prime symbol (') is used to signify that these burdens do not correspond to standard ANSI definitions
- (3) The insulation strength of these transformers is below the impulse level of 60 kV recommended by ANSI for 5 kV service.
- (4) The circuit must be solidly grounded with a 4160 V Y primary connection, since the fuse is rated only to 2,400 volts.
- (5) On transformers with one primary fuse, the neutral terminal insulation to ground is 2,500 volts
- (6) Measurement Canada Approval: AE-0311

JVM-2 Dimensions



Construction and Insulation

Please refer to General Product Information, item 1.8.

Core and Coils

A shell-type core is used. Enamel-insulated wire is used in both the primary and secondary coils.

Primary Terminals

The primary terminals are located on the top of the transformer. They consist of 1/4 inch-20 screws, with lock washers and cup washers.

Unfused models are available with either a primary terminal cover or primary terminal bushings. The terminal cover is a sealable, molded-phenolic cover, which fits over the primary terminals to provide primary circuit insulation and to prevent tampering. When bushings are provided, the primary terminals are located on top of raised, cylindrical tapping bushings to improve ease of tapping the connection between the primary circuit conductors and the terminals. When primary terminal bushings are provided, a terminal cover cannot be accommodated.

Models with a single fuse have their line terminals located on the left side of the fuse support, and the neutral terminal is located on top of the right side of the transformer. The neutral terminal has full primary voltage insulation. On models with two fuses, the primary terminals are attached directly to the fuse supports. Both single and dual fuse models are provided with fuse covers with seal tabs pre-assembled on the transformer. The covers are molded of HY-BUTE160 insulation.

Secondary Terminals

The secondary terminals are located at the lower front of the transformer, and are specifically designed to be accessible from the top of the transformer. The secondary terminals are 1/4 inch-20 screws with lock washers. The secondary terminal cover is molded of black phenolic resin.

Conduit Box

A secondary terminal conduit box is available as an optional accessory in place of the standard secondary terminal cover. The conduit box is fabricated from pressed steel, and is fitted with two 1 inch conduit hubs, a 3/4 inch and 1 inch knockout, one pipe plug, polarity markers, and a gasketed cover secured by four sealable captive thumbscrews.

Polarity

Please refer to General Product Information, item 7.1.

Baseplate and Mounting

Please refer to General Product Information, item 5.1.

Nameplate

Please refer to General Product Information, item 6.9.

Maintenance

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

For more information, visit
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