



# IEEE 5-35kV Indoor PT

IEEE Indoor



PT Series  
 BIL up to 200kV  
 Vacuum cast using polyurethane resin  
 Designed to meet C57.13  
 UL Recognized & CSA Approved  
 Some models IC Approved  
 Typically installed in medium voltage switchgear

3PT3	Model 3PT3	05/30/2017
Model: 3PT3-60; Voltage Class: 5kV, 60kV BIL; Accuracy: 0.3WX, 0.6M, 1.2Y		
PT3	Model PT3	08/10/2017
Model: PT3-1-45, PT3-2-45; Voltage Class: 5kV, 45kV BIL; Accuracy: 0.3WX, 0.6MY, 1.2Z		
PTG3	Model PTG3	08/27/2020
Model: PTG3-1-60, PTG3-2-60; Voltage Class: 5kV, 60kV BIL; Accuracy: 0.3WXMY, 1.2Z		
PTW3	Model PTW3	03/19/2013
Model: PTW3-1-60, PTW3-2-60; Voltage Class: 5kV,60kV BIL; Accuracy: 0.3WXMY, 1.2Z		
PTG4	Model PTG4	08/10/2017
Model: PTG4-1-75, PTG4-2-75; Voltage Class: 8.7kV, 75kV BIL; Accuracy: 0.3WXMYZ, 1.2ZZ		
PTW4	Model PTW4	05/09/2013
Model: PTW4-1-75, PTW4-2-75; Voltage Class: 8.7 kV,75 kV BIL; Accuracy: 0.3WXMYZ, 1.2ZZ		
PTG5	Model PTG5	08/27/2020
Model: PTG5-1-110, PTG5-2-110; Voltage Class: 15 kV, 110 kV BIL; Accuracy: 0.3WXMYZ, 1.2ZZ		
PTW5	Model PTW5	08/08/2017
Model: PTW5-1-110, PTW5-2-110; Voltage Class: 15 kV,110 kV BIL; Accuracy: 0.3WXMYZ, 1.2ZZ		
PT6-1	Model PT6-1	08/10/2017
Model: PT6-1-125; Voltage Class: 25 kV,125 kV BIL; Accuracy: 0.3WXMYZ, 1.2ZZ		
PT6-2	Model PT6-2	08/10/2017
Model: PT6-2-125; Voltage Class: 25 kV, 125 kV BIL; Accuracy: 0.3WXMYZ, 1.2ZZ		
PT7-1	Model PT7-1	08/10/2017
Model: PT7-1-200; Voltage Class: 34.5 kV, 200 kV BIL; Accuracy: 0.3WXMYZ, 1.2ZZ		
PT7-2	Model PT7-2	08/10/2017
Model: PT7-2-150/PT7-2-200; Voltage Class: 36.5kV, 150/200kV BIL; Accuracy: 0.3WXMYZ, 1.2ZZ		

50753	Model PT7-2 Fused	08/09/2017
Model: PT7-2-150; Voltage Class: 36.5kV, 150kV BIL; Accuracy: 0.3WXYMZ, 1.2ZZ		
JVM-2	Model JVM-2 2.4kV Indoor VT	11/08/2017
Model: JVM-2; Voltage class: 2400-4800V 45kV BIL		
JVM-2C_3C	Model JVM-2C 2.4-4.8kV Indoor VT	08/10/2017
Model: JVM-2C/3C; Voltage class: 2400-4800V 60kV BIL		
JVM-3	Model JVM-3 2.4kV-4.8kV Indoor VT	11/08/2017
Model: JVM-3; Voltage class: 2400-4800V 60kV BIL		
JVM-4/5	Model JVM-4/JVM-5 4.2kV-14.4kV Indoor VT	11/08/2017
Model: JVM-4/JVM-5; Voltage class: 4200-14400V 75kV-110kV BIL		
JVM_4A_5A	Model JVM-4A/5A 4.2-14.4KV 75-110KV BIL indoor VT	08/10/2017
JVM-4C_5C	Model JVM-5C 8.7-15kV Indoor VT	08/10/2017
Model: JVM-4C/5C; Voltage class: 4200-14400V 75-110kV BIL		
JVM-4AC_5AC	Model JVM-5AC 8.7-15kV Indoor VT for High Accuracy	08/10/2017
Model: JVM-4AC, JVM-5AC; 75-110kV BIL 4200-14400V		

# Model 3PT3-60

## Indoor Voltage Transformer Medium Voltage

### Accuracy Class

0.3 WX, 0.6 M, 1.2 Y at 100 % rated voltage with 120 V based ANSI burden.

### Frequency

60 Hz

### Thermal Rating

700 VA total 350 VA per phase, at 30 °C. amb.

450 VA total, 225 VA per phase, at 55 °C. amb

### Standard Secondary Voltage

120 volts.

### Maximum System Voltage

5.6 kV, BIL 60 kV.

Primary terminals are No.10-32 brass screws with one flatwasher and lockwasher.

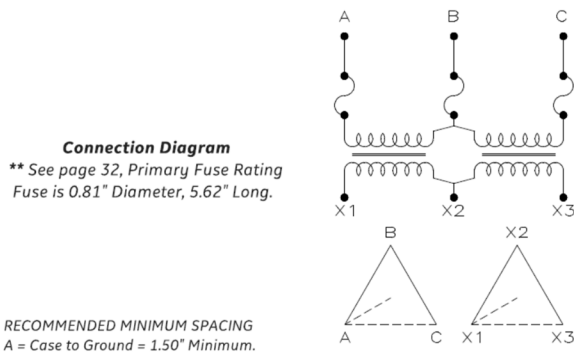
Approximate weight 38 lbs.



## Model 3PT3-60

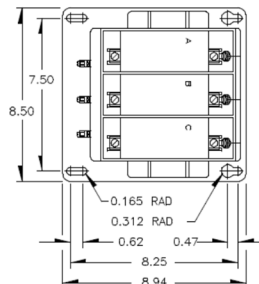
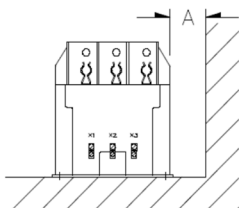
Group	Catalog Number Fuses	Catalog Number Fuses Clips Only	Rated Primary Voltage	Ratio	Suggested Fuse Rating**
1	3PT3-60-242FFF	3PT3-60-242CCC	2,400	20:1	1.0E
2	*3PT3-60-332FFF	*3PT3-60-332CCC	3,300	30:1	1.0E
2	3PT3-60-422FFF	3PT3-60-422CCC	4,200	35:1	0.5E
2	3PT3-60-482FFF	3PT3-60-482CCC	4,800	40:1	0.5E

\* Rated 50/60 Hz, 03 W, 500 VA Total @ 30 °C, 350 VA Total @ 55 °C.



\* The core and coil assembly is encased in a plastic enclosure and vacuum encapsulated in polyurethane resin.

Recommended spacing are for guidance only. User needs to set appropriate values to assure performance for high potential test, impulse test, high humidity, partial discharge, high altitude, and other considerations like configuration.



# Models PT3-1-45 & PT3-2-45

## Indoor Voltage Transformers Medium Voltage

### Accuracy Class

0.3 WX, 0.6 MY, 1.2 Z at 100 % rated voltage with 120 V based ANSI burden.

0.6 WX, 1.2 MY at 58 % rated voltage with 69.3 V based ANSI burden.

### Frequency

60 Hz.

### Maximum System Voltage

5.6 kV, BIL 45 kV.

### Thermal Rating

600 VA 30 °C. amb.  
400 VA 55 °C. amb.

### Specifications

The core and coil assembly is encased in a plastic enclosure and vacuum encapsulated in polyurethane resin.

Switch gear style is similar to fused style. No fuse or fuse clip is provide, but inserts for fuse clips are supplied.

Approximate weight 20 lbs., unfused.



REGULATORY AGENCY APPROVALS

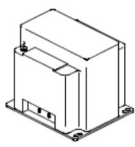


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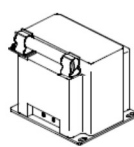


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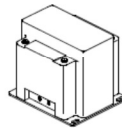
Manufactured to meet the requirements of ANSI/IEEE C57.13.



UNFUSED  
Two Bushing



ONE FUSE  
One Bushing



SWITCHGEAR  
STYLE  
Two Bushing

## PT3

Two Bushings (a)				Catalog Numbers			
Group	Primary Voltage	Ratio	Secondary Voltage	Unfused	Fuses	Fuse Clips Only (d)	Switchgear Style
1	840	7:1	120	PT3-2-45-841	-	-	-
1	1,200	10:1	120	PT3-2-45-122	-	-	-
1	2,400	20:1	120	PT3-2-45-242	PT3-2-45-242FF	PT3-2-45-242CC	PT3-2-45-242SS
2	3,300	30:1	110 - 50 Hz	PT3-2-45-332	PT3-2-45-332FF	PT3-2-45-332CC	PT3-2-45-332SS
2	4,200	35:1	120	PT3-2-45-422	PT3-2-45-422FF	PT3-2-45-422CC	PT3-2-45-422SS
2	4,800	40:1	120	PT3-2-45-482	PT3-2-45-482FF	PT3-2-45-482CC	PT3-2-45-482SS

## PT3

One Bushing (a)					Catalog Numbers		
Group	Primary Voltage	Ratio	Secondary Voltage	R <sub>FR</sub> (c)	Fuses	Fuse Clips Only (d)	Switchgear Style
4A	2,400	20:1	120	190	PT3-1-45-242F	PT3-1-45-242C	PT3-1-45-242S
4B	4,200	35:1	120	190	PT3-1-45-422F	PT3-1-45-422C	PT3-1-45-422S
AB	4,800	40:1	120	190	PT3-1-45-482F	PT3-1-45-482C	PT3-1-45-482S

## PT3

Fuse for Model PT3 Transformers	Ratings kV	Interrupting Amperes (Sym)	Suggested Rating Continuous Amperes	Cap Dia. Inches (a)	Length Inches	Clip Centers Inches
2400:120V	5.5	45,000	2.0E	1.0	5.63	5.00
3300:110V	5.5	45,000	2.0E	1.0	5.63	5.00
4200:120V	5.5	45,000	1.0E	1.0	5.63	5.00
4800:120V	5.5	45,000	1.0E	1.0	5.63	5.00

# Models PTG3-1-60 & PTG3-2-60

## Indoor Voltage Transformer Medium Voltage

### Accuracy Class

0.3 WXY, 1.2 Z at 100 % rated voltage with 120 V based ANSI burden.

0.6 WX, 1.2 MY at 58 % rated voltage with 69.3 V based ANSI burden.

### Thermal Rating

750 VA 30 °C. amb.  
500 VA 55 °C. amb.

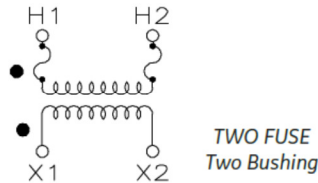
Approximate weight 34 lbs. unfused.

### Frequency

60 Hz.

### Maximum System Voltage

5.6 kV, BIL 60 kV.

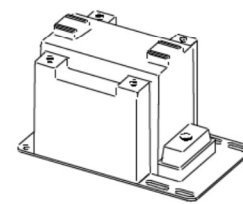
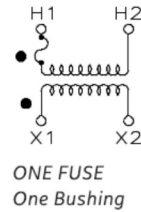
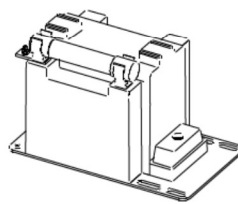
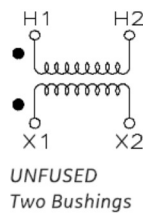
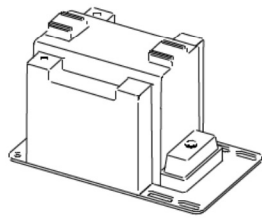


REGULATORY AGENCY APPROVALS



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Manufactured to meet the requirements of ANSI/IEEE C57.13.  
Classified by U.L. in accordance with IEC 44-1



SWITCHGEAR  
STYLE  
Two Bushings

## Product Data - PTG3

Two Bushings (a)				Catalog Numbers			
Group	Primary Voltage	Ratio	Secondary Voltage	Unfused	Fuses	Fuse Clips Only (d)	Switchgear Style
1	*2,400	20:1	120	PTG3-2-60-242	PTG3-2-60-242FF	PTG3-2-60-242CCS or CCL	PTG3-2-60-242SS
2	3,300	30:1	110-50 Hz	PTG3-2-60-332	PTG3-2-60-332FF	PTG3-2-60-332CCS or CCL	PTG3-2-60-332SS
2	*4,200	35:1	120	PTG3-2-60-422	PTG3-2-60-422FF	PTG3-2-60-422CCS or CCL	PTG3-2-60-422SS
2	*4,800	40:1	120	PTG3-2-60-482	PTG3-2-60-482FF	PTG3-2-60-482CCS or CCL	PTG3-2-60-482SS

One Bushing (a)				Catalog Numbers			
Group	Primary Voltage	Ratio	Secondary Voltage	R FR (c)	Fuses	Fuse Clips Only (d)	Switchgear Style
4A	*2,400	20:1	120	230	PTG3-1-60-242F	PTG3-1-60-242CS or CL	PTG3-1-60-242S
4B	*4,200	35:1	120	230	PTG3-1-60-422F	PTG3-1-60-422CS or CL	PTG3-1-60-422S
4B	*4,800	40:1	120	230	PTG3-1-60-482F	PTG3-1-60-482CS or CL	PTG3-1-60-482S

NOTE: All Primary voltages marked with an asterisk (\*) are approved for revenue metering in Canada by Industry Canada, Approval No. T-215 Rev. 02

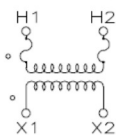
## PTG3

Fuse for Model PTG3 Transformer	Rating Volts	Interrupting Amperes (Sym)	Suggested Rating Continuous Amperes	Cap Dia. Inches (a)	Length Inches	Clip Centers Inches
2,400:120 V	5.5 kV	45,000	2.0 E	1.0	5.63	5.00
3,300:110 V	5.5 kV	45,000	2.0 E	1.0	5.63	5.00
4,200:120 V	5.5 kV	45,000	1.0 E	1.0	5.63	5.00
4,800:120 V	5.5 kV	45,000	1.0 E	1.0	5.63	5.00

REGULATORY AGENCY APPROVALS



Manufactured to meet the requirements of ANSI/IEEE C57.13.



**TWO FUSE  
Two Bushing**

**ACCURACY CLASS:**

0.3 WXY 1.2 Z at 100% rated voltage with 120V based ANSI burden.

0.6 WX, 1.2 MY at 58% rated voltage with 69.3V based ANSI burden.

**FREQUENCY:**

60 Hz.

**MAXIMUM SYSTEM VOLTAGE:**

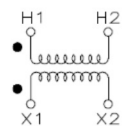
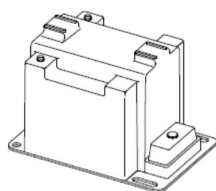
5.6kv, BIL 60kv.

**THERMAL RATING:**

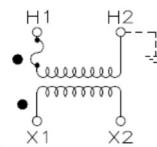
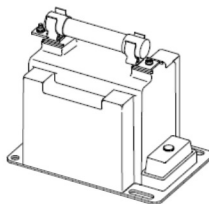
750 VA at 30°C amb.

500 VA at 55°C amb.

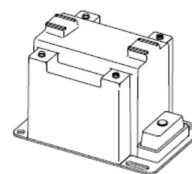
Approximate weight 34 lbs. unfused.



**UNFUSED  
Two Bushing**



**ONE FUSE  
One Bushing**



**SWITCHGEAR  
STYLE  
Two Bushing**

TWO BUSHING (a)				CATALOG NUMBERS			
GROUP	PRIMARY VOLTAGE	RATIO	SECONDARY VOLTAGE	UNFUSED	FUSES	FUSE CLIPS ONLY (d)	SWITCHGEAR STYLE
1	*2400	20:1	120	PTW3-2-60-242	PTW3-2-60-242FF	PTW3-2-60-242CCS or CCL	PTW3-2-60-242SS
2	3300	30:1	110-50 Hz	PTW3-2-60-332	PTW3-2-60-332FF	PTW3-2-60-332CCS or CCL	PTW3-2-60-332SS
2	*4200	35:1	120	PTW3-2-60-422	PTW3-2-60-422FF	PTW3-2-60-422CCS or CCL	PTW3-2-60-422SS
2	*4800	40:1	120	PTW3-2-60-482	PTW3-2-60-482FF	PTW3-2-60-482CCS or CCL	PTW3-2-60-482SS

ONE BUSHING (b)				CATALOG NUMBERS			
GROUP	PRIMARY VOLTAGE	RATIO	SECONDARY VOLTAGE	R <sub>FR</sub> (c)	FUSES	FUSE CLIPS ONLY (d)	SWITCHGEAR STYLE
4A	*2400	20:1	120	230	PTW3-1-60-242F	PTW3-1-60-242CS or CL	PTW3-1-60-242S
4B	*4200	35:1	120	230	PTW3-1-60-422F	PTW3-1-60-422CS or CL	PTW3-1-60-422S
4B	*4800	40:1	120	230	PTW3-1-60-482F	PTW3-1-60-482CS or CL	PTW3-1-60-482S

NOTE: All Primary voltages marked with an asterisk (\*) are approved for revenue metering in Canada by Industry Canada, Approval No. T-215 Rev. 02

FUSE FOR MODEL PTW3 TRANSFORMER	RATING VOLTS	INTERRUPTING AMPERES (SYM)	SUGGESTED RATING CONTINUOUS AMPERES	CAP DIA. INCHES (d)	LENGTH INCHES	CLIP CENTERS INCHES
2400:120V	5.5kv	45,000	2.0E	1.0	5.63	5.00
3300:110V	5.5kv	45,000	2.0E	1.0	5.63	5.00
4200:120V	5.5kv	45,000	1.0E	1.0	5.63	5.00
4800:120V	5.5kv	45,000	1.0E	1.0	5.63	5.00

# Models PTG4-1-75 & PTG4-2-75

## Indoor Voltage Transformers Medium Voltage

### Accuracy Class

0.3 WXYM 1.2ZZ at 100% rated voltage with 120 V based ANSI burden.

0.3 WXYM, 1.2Z at 58% rated voltage with 69.3 V based ANSI burden.

### Frequency

60 Hz.

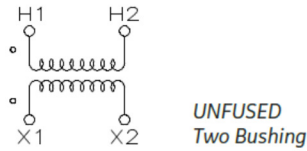
### Maximum System Voltage

9.52 kV, BIL 75 kV.

### Thermal Rating

1,500 VA 30 °C. amb.  
1,000 VA 55 °C. amb.

Approximate weight 85 lbs. unfused.



REGULATORY AGENCY APPROVALS

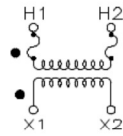
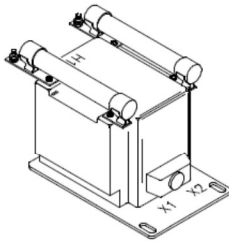


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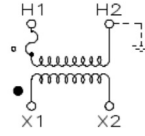
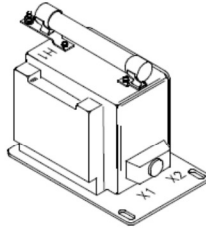


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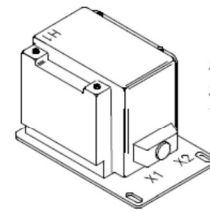
Manufactured to meet the requirements of ANSI/IEEE C57.13.  
Classified by U.L. in accordance with IEC 44-1



PTG4  
Two Bushings



ONE FUSE  
One Bushing



SWITCHGEAR  
STYLE  
Two Bushings

## PTG4

Group	Two Bushings (a)			Catalog Numbers			
	Primary Voltage	Ratio	Secondary Voltage	Unfused	Fuses	Fuse Clips Only	Switchgear Style
1	*4,200	35:1	120	PTG4-2-75-422	PTG4-2-75-422FF	PTG4-2-75-422CC	PTG4-2-75-422SS
2	*4,800	40:1	120	PTG4-2-75-482	PTG4-2-75-482FF	PTG4-2-75-482CC	PTG4-2-75-482SS
2	6,600	60:1	110-50 Hz	PTG4-2-75-662	PTG4-2-75-662FF	PTG4-2-75-662CC	PTG4-2-75-662SS
2	*7,200	60:1	120	PTG4-2-75-722	PTG4-2-75-722FF	PTG4-2-75-722CC	PTG4-2-75-722SS
2	8,400	70:1	120	PTG4-2-75-842	PTG4-2-75-842FF	PTG4-2-75-842CC	PTG4-2-75-842SS

## PTG4

Group	One Bushings (b)				Catalog Numbers		
	Primary Voltage	Ratio	Secondary Voltage	R <sub>FR</sub> (c)	Fuses	Fuse Clips Only	Switchgear Style
4A	*4200	35:1	120	65	PTG4-1-75-422F	PTG4-1-75-422C	PTG4-1-75-422S
4A	*4800	40:1	120	65	PTG4-1-75-482F	PTG4-1-75-482C	PTG4-1-75-482S
4B	6600	60:1	110-50 Hz	65	PTG4-1-75-662F	PTG4-1-75-662C	PTG4-1-75-662S
4B	*7200	60:1	120	65	PTG4-1-75-722F	PTG4-1-75-722C	PTG4-1-75-722S
4B	8400	70:1	120	65	PTG4-1-75-842F	PTG4-1-75-842C	PTG4-1-75-842S

NOTE: All Primary voltages marked with an asterisk (\*) are approved for revenue metering in Canada by Industry Canada, Approval No. AE-0429

## PTG4

Fuse for PTG4 Transformer	Ratings (kV)	Interrupting Amperes (Sym)	Suggested Rating Continuous Amp	Cap Dia. Inches (a)	Length Inches	Clip Centers Inches
4,200:120 V	15.5 kV	80,000	2.0E	1.63	13	11.50
4,800:120 V	15.5 kV	80,000	2.0E	1.63	13	11.50
6,600:110 V	15.5 kV	80,000	1.0E	1.63	13	11.50
7,200:120 V	15.5 kV	80,000	1.0E	1.63	13	11.50
8,400:120 V	15.5 kV	80,000	1.0E	1.63	13	11.50



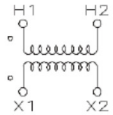
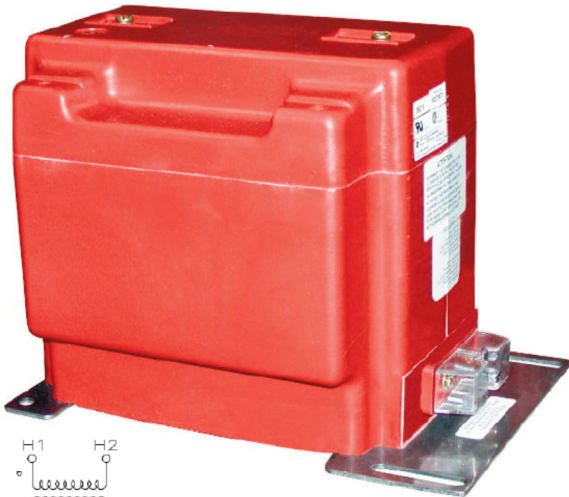
**Instrument Transformers, Inc.**

a division of GE Multilin 

# Medium Voltage Indoor Voltage Transformer Models PTW4-1-75 & PTW4-2-75

REGULATORY AGENCY APPROVALS

 E145172  LR89403  
Manufactured to meet the requirements of ANSI/IEEE C57.13.



**UNFUSED  
Two Bushing**

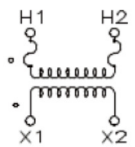
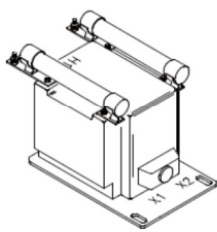
**ACCURACY CLASS:**  
0.3 WXYZ, 1.2ZZ at 100% rated voltage with 120V based ANSI burden.  
0.3 WXY, 1.2Z at 58% rated voltage with 69.3V based ANSI burden.

**FREQUENCY:**  
60 Hz.

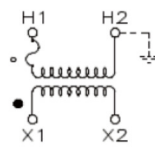
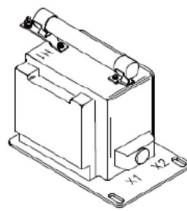
**MAXIMUM SYSTEM VOLTAGE:**  
9.52kV, BIL 75kV.

**THERMAL RATING:**  
1500 VA at 30°C amb.  
1000 VA at 55°C amb.

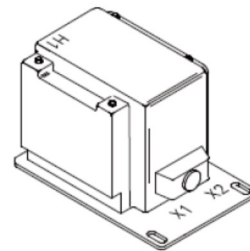
Approximate weight 85 lbs. unfused.



**TWO FUSE  
Two Bushing**



**ONE FUSE  
One Bushing**



**SWITCHGEAR STYLE  
Two Bushing**

TWO BUSHING (a)				CATALOG NUMBERS			
GROUP	PRIMARY VOLTAGE	RATIO	SECONDARY VOLTAGE	UNFUSED	FUSES	FUSE CLIPS ONLY	SWITCHGEAR STYLE
1	*4200	35:1	120	PTW4-2-75-422	PTW4-2-75-422FF	PTW4-2-75-422CC	PTW4-2-75-422SS
1	*4800	40:1	120	PTW4-2-75-482	PTW4-2-75-482FF	PTW4-2-75-482CC	PTW4-2-75-482SS
2	6600	60:1	110-50 Hz	PTW4-2-75-662	PTW4-2-75-662FF	PTW4-2-75-662CC	PTW4-2-75-662SS
2	*7200	60:1	120	PTW4-2-75-722	PTW4-2-75-722FF	PTW4-2-75-722CC	PTW4-2-75-722SS
2	8400	70:1	120	PTW4-2-75-842	PTW4-2-75-842FF	PTW4-2-75-842CC	PTW4-2-75-842SS

ONE BUSHING (b)				CATALOG NUMBERS			
GROUP	PRIMARY VOLTAGE	RATIO	SECONDARY VOLTAGE	R <sub>FR</sub> (c)	FUSES	FUSED CLIPS ONLY	SWITCHGEAR STYLE
4A	*4200	35:1	120	65	PTW4-1-75-422F	PTW4-1-75-422C	PTW4-1-75-422S
4A	*4800	40:1	120	65	PTW4-1-75-482F	PTW4-1-75-482C	PTW4-1-75-482S
4B	6600	60:1	110-50 Hz	65	PTW4-1-75-662F	PTW4-1-75-662C	PTW4-1-75-662S
4B	*7200	60:1	120	65	PTW4-1-75-722F	PTW4-1-75-722C	PTW4-1-75-722S
4B	8400	70:1	120	65	PTW4-1-75-842F	PTW4-1-75-842C	PTW4-1-75-842S

NOTE: All Primary voltages marked with an asterisk (\*) are approved for revenue metering in Canada by Industry Canada, Approval No. AE-0429 Rev.02



# Models PTG5-1-110 & PTG5-2-110

## Indoor Voltage Transformers Medium Voltage

### Accuracy Class

0.3 WXYZ 1.2 ZZ at 100% rated voltage with 120 V based ANSI burden.

0.3 WXY, 1.2Z at 58% rated voltage with 69.3 V based ANSI burden.

### Thermal Rating

1,500 VA 30 °C. amb.  
1,000 VA 55 °C. amb.

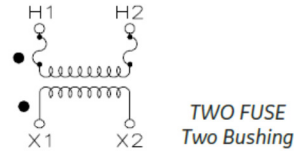
Approximate weight 85 lbs. unfused.

### Frequency

60 Hz.

### Maximum System Voltage

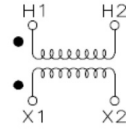
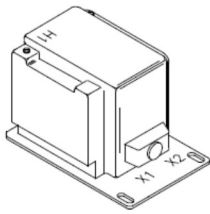
15.5 kV, BIL 110 kV.



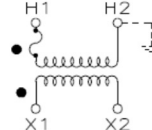
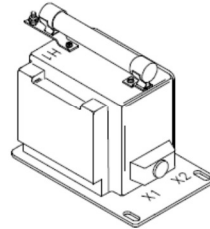
REGULATORY AGENCY APPROVALS



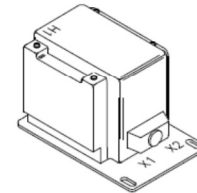
Manufactured to meet the requirements of ANSI/IEEE C57.13.



UNFUSED  
Two Bushing



ONE FUSE  
One Bushing



SWITCHGEAR  
STYLE  
Two Bushing

## PTG5

Two Bushing (a)				Catalog Numbers			
Group	Primary Voltage	Ratio	Secondary Voltage	Unfused	Fuses	Fuse Clips Only	Switchgear Style
1	*7,200	60:1	120	PTG5-2-110-722	PTG5-2-110-722FF	PTG5-2-110-722CC	PTG5-2-110-722SS
1	*8,400	70:1	120	PTG5-2-110-842	PTG5-2-110-842FF	PTG5-2-110-842CC	PTG5-2-110-842SS
2	11,000	100:1	110-50 Hz	PTG5-2-110-113	PTG5-2-110-113FF	PTG5-2-110-113CC	PTG5-2-110-113SS
2	*12,000	100:1	120	PTG5-2-110-123	PTG5-2-110-123FF	PTG5-2-110-123CC	PTG5-2-110-123SS
2	13,200	110:1	120	PTG5-2-110-1322	PTG5-2-110-1322FF	PTG5-2-110-1322CC	PTG5-2-110-1322SS
2	*14,400	120:1	120	PTG5-2-110-1442	PTG5-2-110-1442FF	PTG5-2-110-1442CC	PTG5-2-110-1442SS

One Bushing (b)					Catalog Numbers		
Group	Primary Voltage	Ratio	Secondary Voltage	R FR (c)	Fuses	Fuse Clips Only (d)	Switchgear Style
4A	*7,200	60:1	120	65	PTG5-1-110-722F	PTG5-1-110-722C	PTG5-1-110-722S
4A	*8,400	70:1	120	65	PTG5-1-110-842F	PTG5-1-110-842C	PTG5-1-110-842S
4B	11,000	100:1	110-50 Hz	65	PTG5-1-110-113F	PTG5-1-110-113C	PTG5-1-110-113S
4B	*12,000	100:1	120	65	PTG5-1-110-123F	PTG5-1-110-123C	PTG5-1-110-123S
4B	13,200	110:1	120	65	PTG5-1-110-1322F	PTG5-1-110-1322C	PTG5-1-110-1322S
4B	*14,400	120:1	120	65	PTG5-1-110-1442F	PTG5-1-110-1442C	PTG5-1-110-1442S

NOTE: All Primary voltages marked with an asterisk (\*) are approved for revenue metering in Canada by Industry Canada, Approval No. AE-0431 Rev. 01

## PTG5

Fuse for Model PTG5 Transformer	Rated (kV)	Interrupting Amperes (Sym)	Suggested Rating Continuous Amperes	Cap Dia. (a) Inches	Length Inches	Clip Centers Inches
7200:120 V	15.5	80,000	1.0E	1.63	13	11.50
8400:120 V	15.5	80,000	1.0E	1.63	13	11.50
11000:110 V	15.5	80,000	0.5E	1.63	13	11.50
12000:120 V	15.5	80,000	0.5E	1.63	13	11.50
13200:120 V	15.5	80,000	0.5E	1.63	13	11.50
14400:120 V	15.5	80,000	0.5E	1.63	13	11.50

# Models PTW5-1-110 & PTW5-2-110

## Indoor Voltage Transformers Medium Voltage

### Accuracy Class

0.3. WXYZ 1.2 ZZ at 100 % rated voltage with 120 V based ANSI burden.

0.3 WXY, 1.2Z at 58 % rated voltage with 69.3 V based ANSI burden

### Frequency

60 Hz.

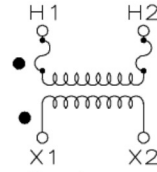
### Maximum System Voltage

15.5 kV, BIL 110 kV.

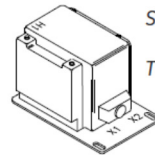
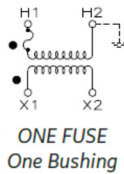
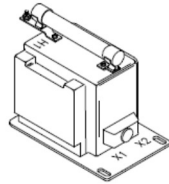
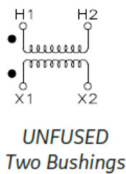
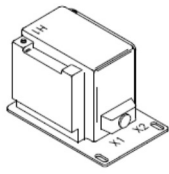
### Thermal Rating

1,500 VA 30 °C. amb.  
1,000 VA 55 °C. amb.

Approximate weight 85 lbs. unfused.



TWO FUSE  
Two Bushings



SWITCHGEAR  
STYLE  
Two Bushings

REGULATORY AGENCY APPROVALS



E145172



LR89403

Manufactured to meet the requirements of ANSI/IEEE C57.13.

## Model PTW5 -2

Two Bushing (a)				Catalog Numbers			
Group	Primary Voltage (V)	Ratio	Secondary Voltage (V)	Unfused	Fuses	Fuse Clips Only (d)	Switchgear
1	*7,200	60:1	120	PTW5-2-110-722	PTW5-2-110-722FF	PTW5-2-110-722CC	PTW5-2-110-722SS
1	*8,400	70:1	120	PTW5-2-110-842	PTW5-2-110-842FF	PTW5-2-110-842CC	PTW5-2-110-842SS
2	11,000	100:1	110-50 Hz	PTW5-2-110-113	PTW5-2-110-113FF	PTW5-2-110-113CC	PTW5-2-110-113SS
2	*12,000	100:1	120	PTW5-2-110-123	PTW5-2-110-123FF	PTW5-2-110-123CC	PTW5-2-110-123SS
2	13,200	110:1	120	PTW5-2-110-1322	PTW5-2-110-1322FF	PTW5-2-110-1322CC	PTW5-2-110-1322SS
2	*14,400	120:1	120	PTW5-2-110-1442	PTW5-2-110-1442FF	PTW5-2-110-1442CC	PTW5-2-110-1442SS

## Model PTW5 - 1

One Bushing (a)				Catalog Numbers			
Group	Primary Voltage (V)	Ratio	Secondary Voltage (V)	R <sub>FR</sub> (c)	Fuses	Fuse Clips Only (d)	Switchgear
4A	*7,200	60:1	120	65	PTW5-1-110-722F	PTW5-1-110-722C	PTW5-1-110-722S
4A	*8,400	70:1	120	65	PTW5-1-110-842F	PTW5-1-110-842C	PTW5-1-110-842S
4B	11,000	100:1	110-50 Hz	65	PTW5-1-110-113F	PTW5-1-110-113C	PTW5-1-110-113S
4B	*12,000	100:1	120	65	PTW5-1-110-123F	PTW5-1-110-123C	PTW5-1-110-123S
4B	13,200	110:1	120	65	PTW5-1-110-1322F	PTW5-1-110-1322C	PTW5-1-110-1322S
4B	*14,400	120:1	120	65	PTW5-1-110-1442F	PTW5-1-110-1442C	PTW5-1-110-1442S

NOTE: All Primary voltages marked with an asterisk (\*) are approved for revenue metering in Canada by Industry Canada, Approval No. AE-0431 Rev. 01

## PTW5

Fuse for Model PTG4 Transformer	Rating (kV)	Interrupting Amperes (Sym.)	Suggested Rating Continuous Amperes	Cap Dia. Inches (a)	Length Inches	Clip Centers Inches
7,200:120 V	15.5	80,000	1.0 E	1.63	13	11.50
4,800:120 V	15.5	80,000	1.0E	1.63	13	11.50
11,000:120 V	15.5	80,000	0.5 E	1.63	13	11.50
12,000:120 V	15.5	80,000	0.5 E	1.63	13	11.50
13,200:120 V	15.5	80,000	0.5 E	1.63	13	11.50
14,400:120 V	15.5	80,000	0.5 E	1.63	13	11.50

# Model PT6-1-125

## Indoor Voltage Transformer ANSI Groups 4A & 4B Medium Voltage

### Accuracy Class

0.3 WXYZ 1.2ZZ at 100 % rated voltage with 120 V based ANSI burden.

0.3 WXY, 1.2Z at 58 % rated voltage with 69.3 V based ANSI burden.

### Frequency

60 Hz.

### Maximum System Voltage

25.5 kV, BIL 125 kV.

### Thermal Rating

1,500 VA 30 °C. amb.  
1,000 VA 55 °C. amb.

### Weight

Approximate weight 125 lbs.



ONE BUSHING

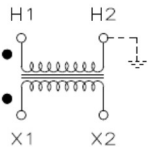
### REGULATORY AGENCY APPROVALS



E145172 LR89403

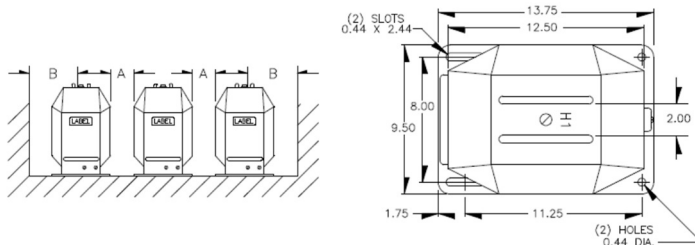
Manufactured to meet the requirements of ANSI/IEEE C57.13.

## PT6-1



Group	Primary Voltage (a)	Ratio	Secondary Voltage	Catalog Numbers	<sup>R</sup> FR) (c) Ω
4A	10,200	85:1	120	PT6-1-125-1022	80
4A	*12,000	100:1	120	PT6-1-125-123	80
4A	13,200	110:1	120	PT6-1-125-1322	80
4A	13,800	115:1	120	PT6-1-125-1382	80
4A	*14,400	120:1	120	PT6-1-125-1442	80
4B	*18,000	150:1	120	PT6-1-125-183	50
4B	*21,000	175:1	120	PT6-1-125-213	50
4B	*24,000	200:1	120	PT6-1-125-243	50

NOTE: All primary voltages marked with an asterisk (\*) are approved for revenue metering in Canada by industry Canada, Approval No. AE-0676 Rev.2

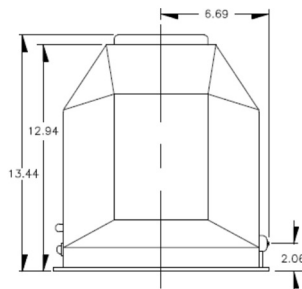


### Recommended Minimum Spacings

A = Unit to Unit = 1.50" minimum.  
B = HV to Ground in Air = 8.50" minimum.

Recommended spacing are for guidance only.

User needs to set appropriate values to assure performance for high potential test, impulse test, high humidity, partial discharge, high altitude, and other considerations like configuration.



# Model PT6-2-125

## Indoor Voltage Transformer ANSI Group 2 Medium Voltage

### Accuracy Class

0.3 WXYZ 1.2ZZ at 100 % rated voltage with 120V based ANSI burden.

0.3 WXY, 1.2Z at 58 % rated voltage with 69.3V based ANSI burden..

### Frequency

60 Hz.

### Maximum System Voltage

25.5 kV, BIL 125 kV.

### Thermal Rating

1,500 VA 30 °C. amb.  
1,000 VA 55 °C. amb.

### Weight

Approximate weight 125 lbs.



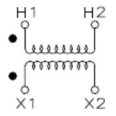
Two Bushings

### REGULATORY AGENCY APPROVALS



Manufactured to meet the requirements of ANSI/IEEE C57.13.

## Product Data PT6-2

	Primary Voltage (a)	Ratio	Secondary Voltage	125 kV BIL Catalog Numbers
	18,000	150:1	120	PT6-2-125-183
	21,000	175:1	120	PT6-2-125-213
	24,000	200:1	120	PT6-2-125-243

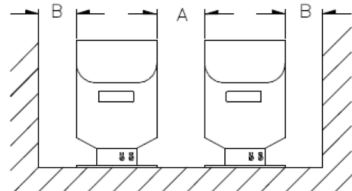
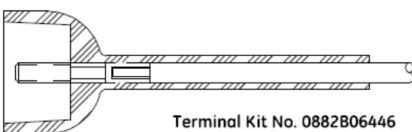
Approved for revenue metering in Canada by industry Canada, Approval No. AE-0676 Rev.2

(a) Also available are other ratios and frequencies, double secondaries and units meeting IEC 44-2.

Note: It is recommended that the system line-to-line voltage not exceed transformer maximum system voltage level.

## Model PT6-2-125 Model PT6-2-125 ANSI Group 2

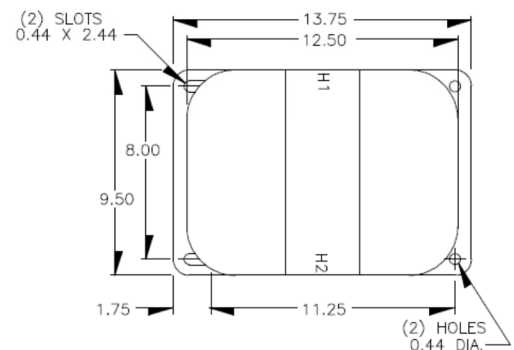
- Primary terminals are 3/8-16 brass screws with one flatwasher and lockwasher.
- Secondary terminals are 1/4-20 brass screws with one flatwasher and lockwasher.
- The core and coil assembly is vacuum encapsulated in polyurethane resin.
- Primary fuses are not supplied, but are recommended. Use 25 kV, 0.5E rated fuses.
- A test card is provided with each unit
- An insulated primary terminal kit part number 0882B06446 is an available option. Includes 2 each 3/8-16 terminals, terminal boots and 48" of No. 6 insulated lead wire. This lead wire is not fully insulated; therefore proper clearances and support methods must be implemented by the user. Lead wire must also be directed away from all surfaces of the transformer to avoid any partial discharge between the lead wire and the transformer.



## Recommended Minimum Spacings

A = Unit to Unit = 1.50" minimum. (Open Delta Connection)  
B = HV to Ground in Air = 8.50" minimum.

Recommended spacings are for guidance only. User needs to select appropriate values to assure performance for high potential test, impulse test, high humidity, partial discharge, high altitude, specific configurations and other considerations.



# Model PT7-1-150 & PT7-1-200

## Indoor Voltage Transformer ANSI Groups 4A & 4B Medium Voltage

### Accuracy Class

0.3 WXYZ 1.2ZZ at 100 % rated voltage with 120 V based ANSI burden.

0.3 WXY, 1.2Z at 58 % rated voltage with 69.3 V based ANSI burden.

### Frequency

60 Hz.

### Maximum System Voltage

Model PT7-1-150  
36.5 kV, BIL 150 kV.

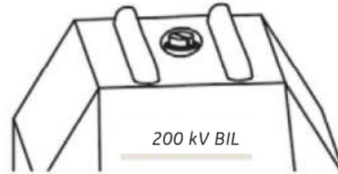
Model PT7-1-200  
36.5 kV, BIL 200 kV

### Thermal Rating

1,500 VA 30 °C. amb.  
1,000 VA 55 °C. amb.

### Weight

Approximate weight 140 lbs.



Terminal Designed to Accept  
Primary Terminal Lead Assembly  
0843A09154



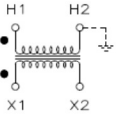
REGULATORY AGENCY APPROVALS



Manufactured to meet the requirements of ANSI/IEEE C57.13.

## Product Data - PT7-1

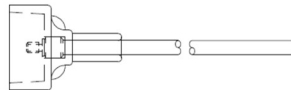
Group	Primary Voltage (a) V	Ratio	Secondary Voltage V	**150 kV BIL Catalog Numbers	R <sub>FR</sub> (b) Ω
4A	15,240	127:1	120	PT7-1-150-SD01967	80
4A	15,600	130:1	120	PT7-1-150-SD03259	80
4A	*16,800	140:1	120	PT7-1-150-SD02381	80
4A	19,920	166:1	120	PT7-1-150-SD01620	80
4A	*20,125	175:1	115	PT7-1-150-2012A	80
4B	24,000	200:1	120	PT7-1-150-SD03289	50
4B	26,400	220:1	120	PT7-1-150-SD02085	50
4B	27,000	225:1	120	PT7-1-150-SD03158	50
4B	27,600	240:1	115	PT7-1-150-SD03449	50
4B	34,500	300:1	115	PT7-1-150-SD01617	50



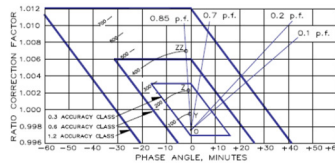
NOTE: All primary voltages marked with an asterisk (\*) are approved for revenue metering in Canada by industry Canada, Approval No. AE-0676 Rev.2  
\*\* Consult factory for 200 kV BIL catalog numbers.

### Primary Terminal Lead Assembly (0843A09154)

- Supplied with 200 kV BIL units only (Not available for 150 kV BIL units)
- 10-32 threaded connector, insulating boot, and lead wire included
- Lead wire is No. 10 AWG rated 600 volt only
- Lead clearances shown below for PT7-1-200 must be maintained
- 36 inches long unless specified otherwise



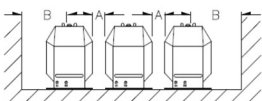
### Circle Diagram



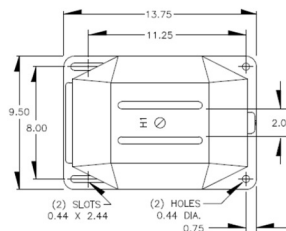
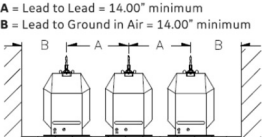
The circle diagram can be used to predict the performance of a transformer for various loads and power factors. A convenient scale of volt-ampere is shown on the unity power factor line (u.p.f.) and commences at the zero or no-load locus. To use the diagram, measure the known V.A. and scribe an arc about the "Zero" locus of a length that contains the angle of the burden power factor. The point at which the arc terminates is the error locus in phase angle minutes and ratio correction factor.

### RECOMMENDED MINIMUM SPACINGS

**PT7-1-150** (Customer supplied leads must be directed away from the transformer)  
A = Unit to Unit = 1.75" minimum  
B = HV to Ground in Air = 11.50" minimum



**PT7-1-200** (Leads must be directed away from the transformer)  
A = Lead to Lead = 14.00" minimum  
B = Lead to Ground in Air = 14.00" minimum



# Model PT7-2-150 Fused

## Medium Voltage Indoor Voltage Transformer ANSI Group 2

### Accuracy Class

0.3 WXYZ 1.2ZZ at 100 % rated voltage with 120 V based ANSI burden.

0.3 WXY, 1.2Z at 58 % rated voltage with 69.3 V based ANSI burden..

### Frequency

60 Hz.

### Maximum System Voltage

Model PT7-2-150  
36.5 kV, BIL 150 kV full wave

Model PT7-2-200  
36.5 kV, BIL 200 kV full wave.

### Thermal Rating

1,500 VA 30 °C. amb.  
1,000 VA 55 °C. amb.

### Weight

Approximate weight 185 lbs.

### Specifications

- Primary terminals are 3/8-16 brass screws with one flatwasher and lockwasher.
- Secondary terminals are 1/4-20 brass screws with one flatwasher and lockwasher.
- The core and coil assembly is vacuum encapsulated in polyurethane resin.
- A test card is provided with each unit.
- Customer supplied leads must be directed away from transformer.
- User needs to select appropriate clearance values to assure performance for high potential testing, impulse testing, high humidity, partial discharge, high altitude, specific configurations and other considerations.
- Fuse clip only models do not include fuses. Clips supplied accept 1.63 inch diameter fuses. Recommend 34.5 kV 0.5E rated fuses.
- Also available are other ratios and frequencies, double secondaries and units meeting IEC 61689-3. Note: It is recommended that the system line-to-line voltage must not exceed transformer maximum system voltage level.



Fused PT7-2-150

#### REGULATORY AGENCY APPROVALS



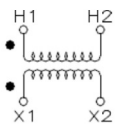
E145172



LR89403

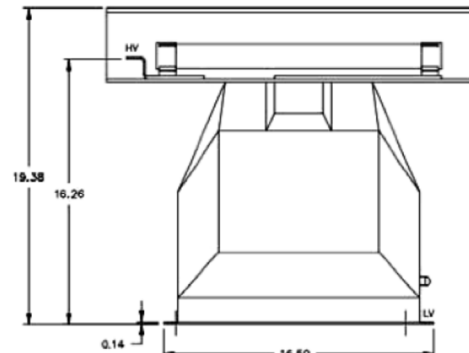
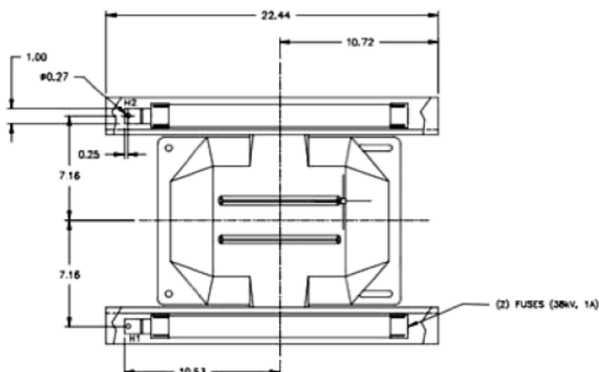
Manufactured to meet the requirements of ANSI/IEEE C57.13.  
Classified by U.L. in accordance with IEC 44-1

### PT7-2 Fused



Catalog Numbers					
Primary Voltage	Ratio	Secondary Voltage	Fuses	Fuse Clips Only	
21,000	175:1	120	PT7-2-150-213FF	PT7-2-150-213CC	
24,000	200:1	120	PT7-2-150-243FF	PT7-2-150-243CC	
27,600	240:1	115	PT7-2-150-2762FF	PT7-2-150-2762CC	
34,500	300:1	115	PT7-2-150-3452FF	PT7-2-150-3452CC	

Transformers are for line-to-line connection, but may be connected line-to-neutral at a voltage of the rated line volts divided by the square root of three. Continuous operation at 110 % of rated voltage is permissible, provided that the thermal burden rated volt-amperes is not exceeded. For line-to-neutral connections a primary fuse should be used in the line side connection only. By this connection a transformer can never be "alive" from the line side by reason of a blown fuse on the grounded side.



# Models PT7-2-150 & PT7-2-200

## Indoor Voltage Transformer ANSI Group 2 Medium Voltage

### Accuracy Class

0.3 WXYZ 1.2ZZ at 100 % rated voltage with 120 V based ANSI burden.

0.3 WXYZ, 1.2Z at 58 % rated voltage with 69.3 V based ANSI burden.

### Frequency

60 Hz.

### Maximum System Voltage

Model PT7-2-150  
36.5 kV, BIL 150 kV full wave

Model PT7-2-200  
36.5 kV, BIL 200 kV full wave.

### Thermal Rating

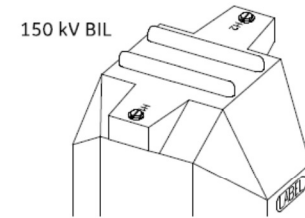
1,500 VA 30 °C. amb.  
1,000 VA 55 °C. amb.

### Weight

Approximate weight 175 lbs.



200 kV BIL



150 kV BIL

### REGULATORY AGENCY APPROVALS



Manufactured to meet the requirements of ANSI/IEEE C57.13.

## Product Data PT7-2

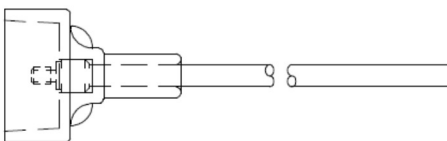
	Primary Voltage (a)	Ratio	Secondary Voltage	150 kV BIL Catalog Numbers	200 kV BIL (b) Catalog Numbers
	24,000	200:1	120	PT7-2-150-243	PT7-2-200-243
	27,600	240:1	115	PT7-2-150-2762	PT7-2-200-2762
	34,500	300:1	115	PT7-2-150-3452	PT7-2-200-3452

Approved for revenue metering in Canada by industry Canada, Approval No. AE-0677 Rev. 1

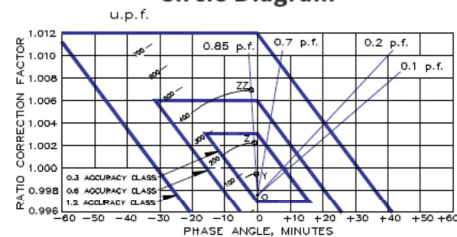
(a) Also available are other ratios and frequencies, double secondaries and units meeting IEC 44-2.

Note: It is recommended that the system line-to-line voltage not exceed transformers maximum system voltage level.

- Primary terminals are 3/8-16 brass screws with one flatwasher and lockwasher. (150 kV BIL only)
- Secondary terminals are 1/4-20 brass screws with one flatwasher and lockwasher.
- The core and coil assembly is vacuum encapsulated in polyurethane resin.
- A primary fuse is not supplied, but is recommended. Use a 34.5, 0.5E rated fuse
- A test card is provided with each unit.



### Circle Diagram



The circle diagram can be used to predict the performance of a transformer for various loads and power factors. A convenient scale of volt-ampere is shown on the unity power factor line (u.p.f.) and commences at the zero or no-load locus. To use the diagram, measure the known V.A. and scribe an arc about the "Zero" locus of a length that contains the angle of the burden power factor. The point at which the arc terminates is the error locus in phase angle minutes and ratio correction factor.

# 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

### 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



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

### Accessories - Catalog Number

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

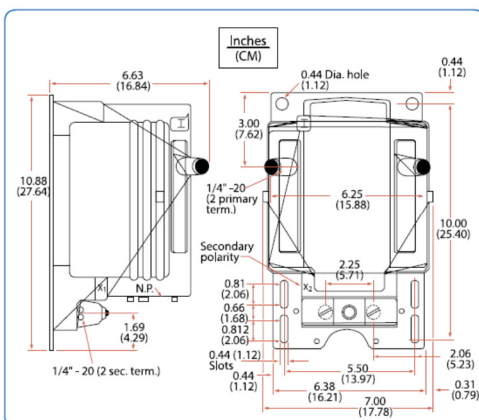
### JVM-2

Line-To-Line Circuit Voltage for Permissible Primary Connection Δ Y Y Only <sup>(3)</sup>	Transformer Rating <sup>(1)</sup>		ANSI Accuracy Class, 60 Hz			Burden Impedances at Rated Voltage, but Operated at 58 % Rated Voltage <sup>(2)</sup>	Catalog Number <sup>6</sup>	Fuse Ratings		
	Primary Voltage	Ratio	Operated at Rated Voltage	Operated at 58 % of Rated Voltage	Amps			Volts		
Primary Terminal Bushings										
2,400	2,400	4160	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	4160	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 <sup>(5)</sup>										
2,400	2,400	4160 <sup>(4)</sup>	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	4160 <sup>(4)</sup>	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



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 HV-BUTEI60 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



# Model JVM-2C/3C

**Indoor Voltage Transformer**  
**60 kV BIL, 2,400-4,800 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 .....750 VA  
 30 °C Rise above 55 °C Ambient .....500 VA

## Weight

Unfused .....34 lbs  
 Fused .....37 lbs



## Reference Drawings

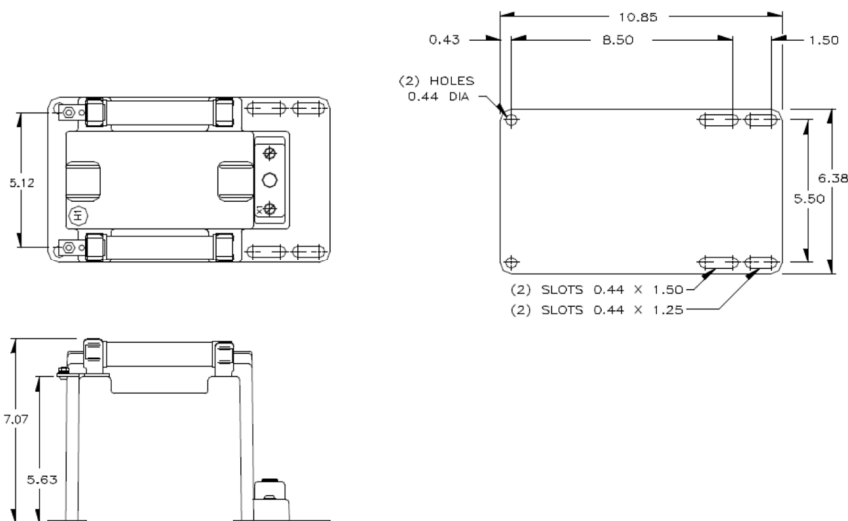
Outline.....0142C33852

## JVM-2C/3C Data Table

Circuit Line to Line Voltage	Permissible Transformer Primary Connection	Transformer Rating		ANSI Accuracy Classification 60 Hz			Catalog Number	Primary Fuse Rating	
		Primary <sup>(1)</sup> Voltage	Ratio	Burden Per ANSI		Operated at 58 % of Rated <sup>(2)</sup> Voltage, but Burden Impedance as at Rated Voltage		Amps	Volts
				Operated at Rated Voltage	Operated at 58 % of Rated Voltage				
<b>Unfused</b>									
2,400 4,160	Δ or Y Y only	2,400	20:1	0.3 W,X,M,Y; 1.2Z	0.3 W,X; 1.2 M,Y	0.3 W; X; M; Y; 1.2 Z'	763X121001	---	---
4,200	Δ or Y	4,200	35:1	0.3 W,X,M,Y; 1.2Z	0.3 W,X; 1.2 M,Y	0.3 W; X; M; Y; 1.2 Z'	763X121002	---	---
4,800	Δ or Y	4,800	40:1	0.3 W,X,M,Y; 1.2Z	0.3 W,X; 1.2 M,Y	0.3 W; X; M; Y; 1.2 Z'	763X121003	---	---
<b>With One Primary Fuse</b>									
2,400	Y only	2,400 <sup>(4)</sup>	20:1	---	0.3 W,X; 1.2 M,Y	0.3 W; X; M; Y; 1.2 Z'	763X121042	2 A	2,400
4,160	Y only	2,400 <sup>(4)</sup>	20:1	0.3 W,X,M,Y; 1.2Z	---	---	763X121033	2 A	4,800
4,200	Y only	4,200	35:1	---	0.3 W,X; 1.2 M,Y	0.3 W; X; M; Y; 1.2 Z'	763X121031	1 A	4,800
4,800	Y only	4,800	40:1	---	0.3 W,X; 1.2 M,Y	0.3 W; X; M; Y; 1.2 Z'	763X121032	1 A	4,800
<b>With Two Primary Fuses</b>									
2,400	Δ or Y <sup>(3)</sup>	2,400 <sup>(4)</sup>	20:1	0.3 W,X,M,Y; 1.2Z	0.3 W,X; 1.2 M,Y	0.3 W; X; M; Y; 1.2 Z'	763X121040	2 A	2,400
4,160	Y only	2,400 <sup>(4)</sup>	20:1	0.3 W,X,M,Y; 1.2Z	---	---	763X121024	2 A	4,800
4,200	Δ or Y <sup>(3)</sup>	4,200	35:1	0.3 W,X,M,Y; 1.2Z	0.3 W,X; 1.2 M,Y	0.3 W; X; M; Y; 1.2 Z'	763X121018	1 A	4,800
4,800	Δ or Y <sup>(3)</sup>	4,800	40:1	0.3 W,X,M,Y; 1.2Z	0.3 W,X; 1.2 M,Y	0.3 W; X; M; Y; 1.2 Z'	763X121019	1 A	4,800

### 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) 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. 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.



# Model JVM-3

## Indoor Voltage Transformer 2,400 V to 4,800 V, BIL 60 kV, 50/60 Hz

### Application

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

### Regulatory Agency Approvals

UL Recognized ..... File E178265

### Thermal Rating (Volt-Amperes)

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

### Weight

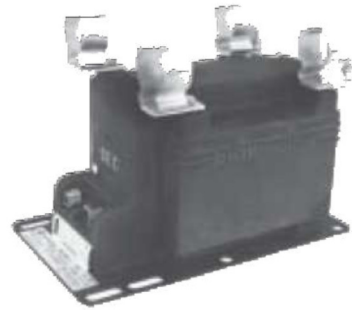
(approximate, in pounds)  
Unfused .....35/30  
With Fuses .....38/33

### Reference Drawings

Accuracy Curve ..... 9689241268  
Excitation Curve ..... 5454043

### Outline Drawings:

Unfused ..... 8949739  
One/Two Fuse; -040 and -042 ..... 9926292  
One Fuse; -033, -31, -32 ..... 8949740  
Two Fuse; -024, -18, -19 ..... 8949741  
Wiring Diagram ..... refer to page 42, figure 5



JVM-2 Voltage Transformer (two-fuse design)

### Accessories - Catalog Number

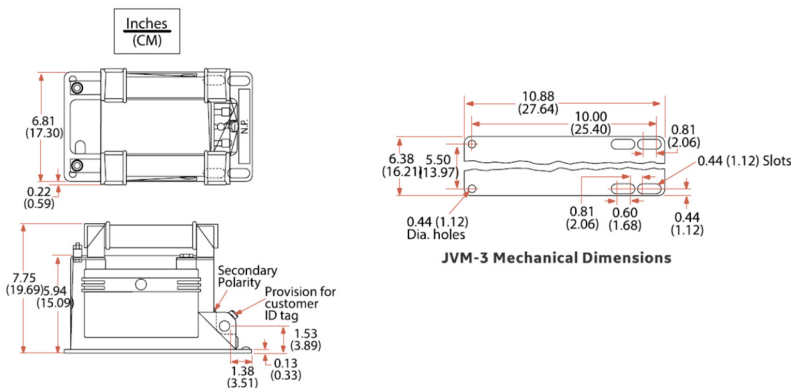
Fuses:  
2,400 Volt Class, 1 Ampere ..... 9F60AAB001  
4,800 Volt Class, 1 Ampere ..... 9F60BBD001  
4,800 Volt Class, 0.5 Ampere ..... 9F60BBD905  
Secondary Terminal Conduit Box .... 9925183001

### JVM-3 Data Table

Line-To-Line Circuit Voltage for Permissible Primary Connection	Transformer Rating <sup>(1)</sup>		ANSI Accuracy Classification, 60 Hz				Primary Fuse Ratings				
	Δ	Y	Y Only	Primary Voltage	Ratio	Operated at Rated Voltage	Operated at 58 % of Rated Voltage	Burden Impedance at Rated Voltage, but Operated at 58 % Rated Voltage <sup>(2)</sup>	Catalog Number <sup>4</sup>	Amps	Volts
Unfused											
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	763X021001	---	---	
4,200	4,200	--	4,200	35:1	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	763X021002	---	---	
4,800	4,800	--	4,800	40:1	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	763X021003	---	---	
With One Primary Fuse											
--	--	2,400	2,400	20:1	--	0.3 W, X; 1.2 M, Y	0.3 W', X', M', Y'; 1.2 Z	763X021042	1 A	2,400	
--	--	4,160	2,400	20:1	0.3 W, X, M, Y; 1.2 Z	--	--	763X021033	1 A	4,800	
--	--	4,200	4,200	35:1	--	0.3 W, X; 1.2 M, Y	0.3 W', X', M', Y'; 1.2 Z	763X021031	0.5 A	4,800	
--	--	4,800	4,800	40:1	--	0.3 W, X; 1.2 M, Y	0.3 W', X', M', Y'; 1.2 Z	763X021032	0.5 A	4,800	
With Two Primary Fuses											
2,400	--	2,400 <sup>(3)</sup>	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	763X021040	1 A	2,400	
--	--	4,160	2,400	20:1	0.3 W, X, M, Y; 1.2 Z	--	--	763X021024	1 A	2,400	
4,200	--	4,200 <sup>(3)</sup>	4,200	35:1	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	763X021018	0.5 A	4,800	
4,800	--	4,800 <sup>(3)</sup>	4,800	40:1	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	763X021019	0.5 A	4,800	

#### 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. By this connection a transformer can never be "alive" from the line side by reason of a blown fuse on the grounded side.
- 4) Measurement Canada Approval: AE-0372



# Models JVM-4/JVM-5

**Indoor Voltage Transformer**  
**4,200 V to 14,400 V, BIL 75 kV to 110 kV, 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.

## Application

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

## ANSI Meter Accuracy Classification, 60 Hz

Operated at Rated Voltage  
 0.3 W, X, M, Y, Z; 1.2 ZZ ...Data Table - Accuracy 1

## Regulatory Agency Approvals

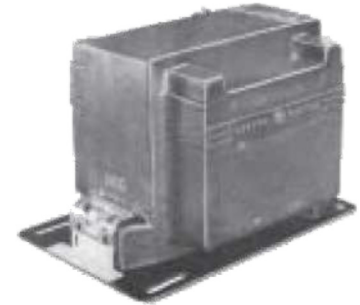
UL Recognized ..... File E178265

Operated at 58 % of Rated Voltage  
 0.3 W, X, M, Y; 1.2 Z .....Data Table - Accuracy 2

## Thermal Rating

55 °C Rise above 30 °C Ambient....1,500 VA  
 30 °C Rise above 55 °C Ambient ...1,000 VA

Burden Impedance as at Rated Voltage,  
 Operated at 58 % of Rated Voltage(2)  
 0.3 W', X', M', Y', Z' .....Data Table - Accuracy 3



JVM-4, -5 Voltage Transformer (unfused design)

## JVM-4/JVM-5

Line-To-Line Circuit Voltage for Permissible Primary Connection			Transformer Rating <sup>(1)</sup>		ANSI Accuracy Classification 60 Hz			BIL	Catalog Number Supplied with Fuses <sup>(8)</sup>	Catalog Number Supplied without Fuse <sup>(8)</sup>	Primary Fuse Rating	
Δ	Y	Y Only	Primary Voltage	Ratio	Operated at Rated Voltage	Operated at 58% of Rated Voltage	Burden Imp as at Rated Voltage; Operated at 58% of Rated Voltage <sup>(2)</sup>				Amps	Volts
Unfused - JVM-4												
4,200	4,200	7,200	4,200	35:1	Accuracy 1	Accuracy 2	Accuracy 3	75 kV	---	764X020001	---	---
4,800	4,800	8,320 <sup>(3)</sup>	4,800	40:1	Accuracy 1	Accuracy 2	Accuracy 3	75 kV	---	764X020002	---	---
7,200	7,200	---	7,200	60:1	Accuracy 1	Accuracy 2	Accuracy 3	75 kV	---	764X020003	---	---
One Primary Fuse - JVM-4												
---	---	4,200	4,200 <sup>(4)</sup>	35:1	---	Accuracy 2	Accuracy 3	75 kV	764X020021	---	2 A	4,800
---	---	7,200	4,200 <sup>(7)</sup>	35:1	Accuracy 1	---	---	75 kV	764X020023	---	2 A	7,200
---	---	4,800	4,800	40:1	---	Accuracy 2	Accuracy 3	75 kV	764X020022	---	2 A	4,800
---	---	7,200	7,200	60:1	---	Accuracy 2	Accuracy 3	75 kV	764X020024	---	1 A	7,200
Two Primary Fuses - JVM-4												
4,200	---	4,200 <sup>(3)</sup>	4,200 <sup>(7)</sup>	35:1	Accuracy 1	Accuracy 2	Accuracy 3	75 kV	764X020012	---	2 A	4,800
---	---	7,200 <sup>(3)</sup>	4,200	35:1	Accuracy 1	---	---	75 kV	764X020015	---	2 A	7,200
4,800	---	4,800 <sup>(3)</sup>	4,800	40:1	Accuracy 1	Accuracy 2	Accuracy 3	75 kV	764X020013	---	2 A	4,800
7,200	---	7,200 <sup>(3)</sup>	7,200	60:1	Accuracy 1	Accuracy 2	Accuracy 3	75 kV	764X020016	---	1 A	7,200
Unfused - JVM-5												
7,200	7,200	12,470	7,200	60:1	Accuracy 1	Accuracy 2	Accuracy 3	110 kV	765X021001	---	---	---
8,400	8,400	14,400	8,400	70:1	Accuracy 1	Accuracy 2	Accuracy 3	110 kV	765X021002	---	---	---
12,000	12,000	---	12,000	100:1	Accuracy 1	Accuracy 2	Accuracy 3	110 kV	765X021003	---	---	---
14,400	14,400	---	14,400	120:1	Accuracy 1	Accuracy 2	Accuracy 3	110 kV	765X021004	---	---	---
One Primary Fuse - JVM-5												
---	---	7,200	7,200 <sup>(5)</sup>	60:1	---	Accuracy 2	Accuracy 3	110 kV	765X021053	765X021061	1 A	7,200
---	---	12,470	7,200	60:1	Accuracy 1	---	---	110 kV	765X021048	765X021056	1 A	14,400
---	---	14,400	8,400	70:1	Accuracy 1	---	---	110 kV	765X021049	765X021057	1 A	14,400
---	---	12,000	12,000	100:1	---	Accuracy 2	Accuracy 3	110 kV	765X021050	765X021058	0.5 A	14,400
---	---	14,400	14,400	120:1	---	Accuracy 2	Accuracy 3	110 kV	765X021051	765X021059	0.5 A	14,400
Two Primary Fuses - JVM-5												
7,200	---	7,200 <sup>(3)</sup>	7,200 <sup>(6)</sup>	60:1	Accuracy 1	Accuracy 2	Accuracy 3	110 kV	765X021031	765X021047	1 A	7,200
7,200	7,200	12,470 <sup>(3)</sup>	7,200	60:1	Accuracy 1	---	---	110 kV	765X021027	765X021043	1 A	14,400
8,400	8,400	14,400 <sup>(3)</sup>	8,400	70:1	Accuracy 1	Accuracy 2	Accuracy 3	110 kV	765X021028	765X021044	1 A	14,400
12,000	---	12,000 <sup>(3)</sup>	12,000	100:1	Accuracy 1	Accuracy 2	Accuracy 3	110 kV	765X021029	765X021045	0.5 A	14,400
14,400	---	14,400 <sup>(3)</sup>	14,400	120:1	Accuracy 1	Accuracy 2	Accuracy 3	110 kV	765X021030	765X021046	0.5 A	14,400

- 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. By this connection a transformer can never be "alive" from the line side by reason of a blown fuse on the grounded side.  
 (4) This transformer is similar to Catalog Number 764X020023 except for the voltage rating of the fuse.  
 (5) This transformer is similar to Catalog Number 765X021048 except for the voltage rating of the fuse.  
 (6) This transformer is similar to Catalog Number 765X021027 except for the voltage rating of the fuse.  
 (7) This transformer is similar to Catalog Number 764X020015 except for the voltage rating of the fuse.  
 (8) Measurement Canada Approval: AE-0853 or AE-0314



## Weight - Shipping/Net

(approximate, in pounds)

Unfused .....105/85  
 With fuses .....110/90

# Models JVM-4A/JVM-5A

**Indoor Voltage Transformer**  
**4,200 V to 14,400 V, BIL 75 kV to 110 kV, 60 Hz**



JVM-4A, -5A Voltage Transformer  
 (two-fuse design)

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

## Regulatory Agency Approvals

UL Recognized .....File E178265

## Weight (Approximate in Pounds)

Unfused .....105/85  
 Fused .....110/90

## Reference Drawings

Accuracy Curve ..... 9932600137  
 Excitation Curves:  
 JVM-4A; 60:1 and 70:1.....9689241591  
 JVM-4A; 100:1 and 120:1 .... 9689241629  
 JVM-5A .....9932600139

## JVM-4A/JVM-5A (two-fuse design)

Line-To-Line Circuit Voltage for Permissible Primary Connection			Transformer Rating (1)		Accuracy Classification 60 Hz		BIL	Catalog Number	Primary Fuse Ratings	
			Primary Voltage	Ratio	ACCUBUTE	ANSI			Amps	Volts
Δ	Y	Y Only								
<b>Unfused - JVM-4A</b>										
4,200	4,200	7,200	4,200	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X021001	---	---
4,800	4,800	8,320	4,800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X021002	---	---
7,200	7,200	---	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X021003	---	---
<b>One Primary Fuse - JVM4A</b>										
---	---	4,200	4,200 <sup>(3)</sup>	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	75 kV	764X021010	2 A	4,800
---	---	7,200	4,200	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X021011	2 A	7,200
---	---	4,800	4,800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	75 kV	764X021012	2 A	4,800
---	---	7,200	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	75 kV	764X021013	1 A	7,200
<b>Two Primary Fuses - JVM-4A</b>										
4,200	---	4,200 <sup>(4)</sup>	4,200	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X021021	2 A	4,800
4,800	---	4,800 <sup>(4)</sup>	4,800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X021022	2 A	4,800
7,200	---	7,200 <sup>(4)</sup>	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X021023	1 A	7,200
<b>Unfused - JVM-5A</b>										
7,200	7,200	12,470	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X023001	---	---
7,620	7,620	13,200	7,620	63.5:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X023002	---	---
8,400	8,400	14,400	8,400	70:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X023003	---	---
12,000	12,000	---	12,000	100:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X023004	---	---
13,200	13,200	---	13,200	110:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X023005	---	---
14,400	14,400	---	14,400	120:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X023006	---	---
<b>One Primary Fuse - JVM5A</b>										
---	---	7,200	7,200 <sup>(5)</sup>	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z (2)	110 kV	765X023010	1 A	7,200
---	---	12,470	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X023011	1 A	14,400
---	---	7,620	7,620	63.5:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X023012	1 A	14,400
---	---	8,400	8,400	70:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X023013	1 A	14,400
---	---	12,000	12,000	100:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z (2)	110 kV	765X023014	0.5 A	14,400
---	---	13,200	13,200	110:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z (2)	110 kV	765X023015	0.5 A	14,400
---	---	14,400	14,400	120:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z (2)	110 kV	765X023016	0.5 A	14,400
<b>Two Primary Fuses - JVM-5A</b>										
7,200	---	7,200 <sup>(4)</sup>	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X023020	1 A	7,200
12,000	---	12,000 <sup>(4)</sup>	12,000	100:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X023024	0.5 A	14,400
13,200	---	13,200 <sup>(4)</sup>	13,200	110:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X023025	0.5 A	14,400
14,400	---	14,400 <sup>(4)</sup>	14,400	120:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X023026	0.5 A	14,400

**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) ANSI 69 Volt burden.
- (3) This transformer is similar to Catalog Number 764X021011 except for the voltage rating of the fuse.
- (4) 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.
- (5) This transformer is similar to Catalog Number 765X023011 except for the voltage rating of the fuse.



## Fuses

Current-limited, Type EJ-1 fuses are used.

# 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

### Thermal Rating

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

### Regulatory Agency Approvals

UL Recognized .....File E145172

### Weight

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

### Reference Drawings

Outline .....0162C33853

### Model JVM-4AC/5AC

Circuit Line to Line Voltage	Permissible Transformer Primary Connection	Transformer Rating		ANSI Accuracy Classification 60 Hz		BIL	Catalog Number Supplied without Fuses	Primary Fuse Rating	
		Primary <sup>(1)</sup> Voltage	Ratio	Burden Per ANSI				Amps	Volts
				Operated at Rated Voltage	Operated at 58 % of Rated Voltage				
<b>JVM-4AC Unfused</b>									
4,200 7,200	Δ or Y Y only	4,200	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121001	---	---
4,800 8,320	Δ or Y Y only	4,800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121002	---	---
7,200	Δ or Y	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121003	---	---
<b>JVM-4AC With One Primary Fuse</b>									
4,200	Y only	4,200 <sup>(4)</sup>	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	75 kV	764X121010	2 A	4800
7,200	Y only	4,200 <sup>(4)</sup>	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121011	2 A	7200
4,800	Y only	4,800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	75 kV	764X121012	2 A	4800
7,200	Y only	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	75 kV	764X121013	1 A	7200
<b>JVM-4AC With Two Primary Fuses</b>									
4,200	Δ or Y only <sup>(3)</sup>	4,200	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121021	2 A	4800
4,800	Δ or Y only <sup>(3)</sup>	4,800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121022	2 A	4800
7,200	Δ or Y only <sup>(3)</sup>	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121023	1 A	7200
<b>JVM-5AC Unfused</b>									
7,200 12,470	Δ or Y Y only	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123001	---	---
7,620 13,200	Δ or Y Y only	7,620	63.5:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123002	---	---
8,400 14,400	Δ or Y Y only	8,400	70:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123003	---	---
12,000	Δ or Y	12,000	100:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123004	---	---
13,200	Δ or Y	13,200	110:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123005	---	---
14,400	Δ or Y	14,400	120:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123006	---	---
<b>JVM-5AC With One Primary Fuse</b>									
7,200	Y only	7,200 <sup>(4)</sup>	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	110 kV	765X123010	1 A	7200
12,470	Y only	7,200 <sup>(4)</sup>	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123011	1 A	14400
7,620	Y only	7,620	63.5:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123012	1 A	14400
8,400	Y only	8,400	70:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123013	1 A	14400
12,000	Y only	12,000	100:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	110 kV	765X123014	1 A	14400
13,200	Y only	13,200	110:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	110 kV	765X123015	1 A	14400
14,400	Y only	14,400	120:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	110 kV	765X123016	1 A	14400
<b>4800JVM-5AC With Two Primary Fuses</b>									
7,200	Δ or Y only <sup>(3)</sup>	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123020	1 A	7200
12,000	Δ or Y only <sup>(3)</sup>	12,000	100:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123024	1 A	14400
13,200	Δ or Y only <sup>(3)</sup>	13,200	110:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123025	1 A	14400
14,400	Δ or Y only <sup>(3)</sup>	14,400	120:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123026	1 A	14400

Notes: Check notes on page 2

- 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.

### 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.

# 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

### Thermal Rating

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

### Regulatory Agency Approvals

UL Recognized .....File E145172

### Weight

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



### Reference Drawings

Outline .....0162C33853

### Model JVM-4AC/5AC

Circuit Line to Line Voltage	Permissible Transformer Primary Connection	Transformer Rating		ANSI Accuracy Classification 60 Hz		BIL	Catalog Number Supplied without Fuses	Primary Fuse Rating	
		Primary <sup>(1)</sup> Voltage	Ratio	Burden Per ANSI				Amps	Volts
				Operated at Rated Voltage	Operated at 58 % of Rated Voltage				
<b>JVM-4AC Unfused</b>									
4,200 7,200	Δ or Y Y only	4,200	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121001	---	---
4,800 8,320	Δ or Y Y only	4,800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121002	---	---
7,200	Δ or Y	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121003	---	---
<b>JVM-4AC With One Primary Fuse</b>									
4,200	Y only	4,200 <sup>(4)</sup>	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	75 kV	764X121010	2 A	4800
7,200	Y only	4,200 <sup>(4)</sup>	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121011	2 A	7200
4,800	Y only	4,800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	75 kV	764X121012	2 A	4800
7,200	Y only	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	75 kV	764X121013	1 A	7200
<b>JVM-4AC With Two Primary Fuses</b>									
4,200	Δ or Y only <sup>(3)</sup>	4,200	35:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121021	2 A	4800
4,800	Δ or Y only <sup>(3)</sup>	4,800	40:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121022	2 A	4800
7,200	Δ or Y only <sup>(3)</sup>	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	75 kV	764X121023	1 A	7200
<b>JVM-5AC Unfused</b>									
7,200 12,470	Δ or Y Y only	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123001	---	---
7,620 13,200	Δ or Y Y only	7,620	63.5:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123002	---	---
8,400 14,400	Δ or Y Y only	8,400	70:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123003	---	---
12,000	Δ or Y	12,000	100:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123004	---	---
13,200	Δ or Y	13,200	110:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123005	---	---
14,400	Δ or Y	14,400	120:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123006	---	---
<b>JVM-5AC With One Primary Fuse</b>									
7,200	Y only	7,200 <sup>(4)</sup>	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	110 kV	765X123010	1 A	7200
12,470	Y only	7,200 <sup>(4)</sup>	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123011	1 A	14400
7,620	Y only	7,620	63.5:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123012	1 A	14400
8,400	Y only	8,400	70:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123013	1 A	14400
12,000	Y only	12,000	100:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	110 kV	765X123014	1 A	14400
13,200	Y only	13,200	110:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	110 kV	765X123015	1 A	14400
14,400	Y only	14,400	120:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z <sup>(2)</sup>	110 kV	765X123016	1 A	14400
<b>4800JVM-5AC With Two Primary Fuses</b>									
7,200	Δ or Y only <sup>(3)</sup>	7,200	60:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123020	1 A	7200
12,000	Δ or Y only <sup>(3)</sup>	12,000	100:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123024	1 A	14400
13,200	Δ or Y only <sup>(3)</sup>	13,200	110:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123025	1 A	14400
14,400	Δ or Y only <sup>(3)</sup>	14,400	120:1	0.15 W, X, M, Y	0.3 W, X, M, Y, Z	110 kV	765X123026	1 A	14400

Notes: Check notes on page 2

- 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.

### 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.