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REFERENCE GUIDE

INSTRUMENT TRANSFORMERS

INDOOR / OUTDOOR
CAST RESIN CONSTRUCTION

This document may be subject to changes. Contact ARTECHE to confirm the characteristics and availability of the products described here.

MOVING TOGETHER

CONTENTS

Updates available at:
www.arteche.com

The instrument transformers listed in this guide are the most common for the electrical utilities and industries. ARTECHE has a much wider range of characteristics and models. For any different detail than the ones listed. please contact ARTECHE or your local representative/distributor.

GENERAL TECHNICAL DATA

600 V INSTRUMENT TRANSFORMERS

5 kV – 34.5 kV INDOOR INSTRUMENT TRANSFORMERS

5 kV – 69 kV OUTDOOR INSTRUMENT TRANSFORMERS & METERING UNITS

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GENERAL TECHNICAL DATA

APPLICATION DATA

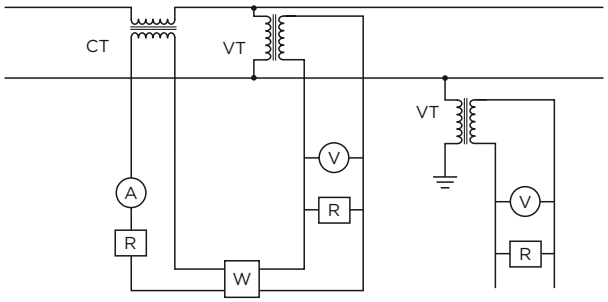
INTRODUCTION

The Purpose of instrument transformers:

- The purpose of instrument transformers is to reduce the voltage and current of an electrical network to standardized, non-hazardous levels.
- They isolate operators and instruments from the high voltage circuits allowing a less hazardous work environment. Without these transformers. measurements would require expensive insulated instrument panels.

There are two types of instrument transformer:

- Current transformers (CT): Under normal operating conditions their secondary current is practically proportional to the primary current, and its phase is shifted by an angle close to zero.
- Voltage transformers (VT): Under normal operating conditions the secondary voltage is practically proportional to the primary voltage and its phase is shifted by an angle close to zero.



- Figure 1: CT and VT diagram connection

VT VOLTAGE DESIGNATIONS

Single-phase Voltage transformers (UR/UC/UX)

The “U” in the type name and the “GY” in the primary voltage column of the data sheet indicate that the VT has one insulated bushing, making it suitable for line-to-ground connection only.

- **40250/69000GY.** This unit is rated for 40250 operating Volts. It can be connected at 40250 Volts line-to-ground on a 69000 Volt system (line-to-line Volts are 69000 V).
- **34500/34500GY.** This unit is rated for 34500 operating Volts. However, it can only be connected line-to-ground on a 34500 V system. Therefore, the actual operating voltage of the unit would be 34500/√3. The accuracy and thermal ratings of this unit are based on 34500 V. This is typical where there is a relay connected to the unit which should operate when there is a single line-to-ground fault. In this condition, the line-to-ground voltage becomes equal to the line-to-line voltage.

Phase-to-phase Voltage transformers (VR/VC/VX)

The “V” in the type name and the “Y” in the primary voltage column of the data sheet indicate that the VT has two fully insulated bushings, making it suitable for line-to-line connection.

- **27600/47804Y.** This unit is rated for 27600 operating Volts. It can be connected at 27600 Volts line-to-ground on a 47804 Volt system (line-to-line Volts are 47804 V) OR it can be connected line-to-line on a system with 27600 V line-to-line. This unit is not suitable for operation at 47804 Volts.
- **46000/46000Y**. This unit is rated for 46000 operating Volts. It can be connected at 46000 Volts line-to-line.

RATING FACTORS

Rating factors given in this brochure are standard at 30°C Characteristics for different thermal loadings on request.

STANDARDS

All the instrument transformers listed in this guide comply with the following standards where applicable:

- IEEE C57.13–2016. Standard Requirements for Instrument transformers.
- ANSI C12.11-2007. American National Standard for Instrument transformers for Revenue Metering 10kV BIL through 350 kV BIL (0.6 kV NSV through 69 kV NSV).
- CSA/IEC 61869. Instrument Transformers.
- IEC 61869. Instrument Transformers.

HOW TO SPECIFY INSTRUMENT TRANSFORMERS

There are several parameters that must be specified when ordering or requesting for proposals or quotations. If the requirements needed fits exactly into the characteristics listed in the data sheets of each model, it is enough to mention the code. However, when non-standard equipment will be needed, the following parameters must be specified:

- Highest nominal voltage system
- Basic impulse level (BIL)
- Type of service (outdoor/indoor)
- Frequency
- Ratio

Only for current transformers

- Continuous thermal current rating factor
- Short-time thermal current (kA/1s)
- Class and burden

Only for voltage transformers

- Rated continuous voltage
- Rated voltage factor (30sec)
- Total thermal burden
- Accuracy class and burden

ACCURACY STANDARDS

CURRENT TRANSFORMERS (CT)

The accuracy class of a current transformer for measuring is given by a number (class rate) representing the ratio error limit expressed as a percentage of the rated primary current when the transformer is running at its “accuracy load”.

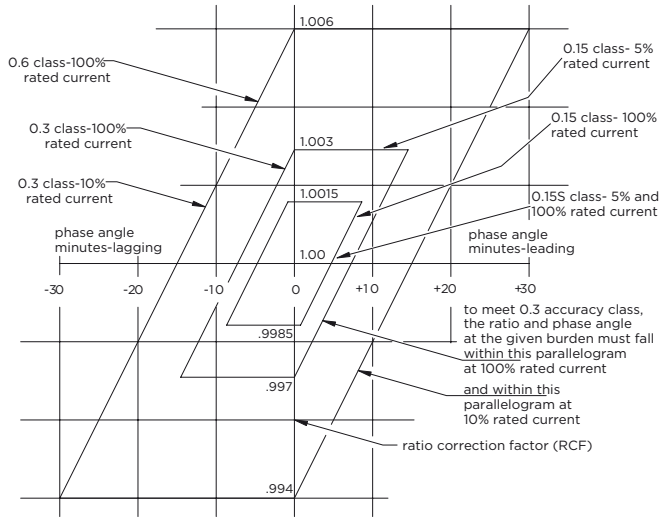
Accuracy classes for current transformers are: 0.15S; 0.15; 0.15N; 0.3S; 0.3; 0.6 and 1.2. For Accuracy class 0.3, 0.6, 0.15N and 1.2 the ratio correction factor must fall within the parallelograms for 100% and 10% respectively. For accuracy class 0.15, 0.15S and 0.3S the ratio correction factor must fall within the parallelograms for 100% and 5% respectively.

The following example calculates the correction factor for a current transformer with the following characteristics:

- 0.3 accuracy class
- 100% rated current
- Ratio correction factor: 1.003
- Maximum allowable phase angle: +15.6 minutes

Transformer Correction Factor = RCF – (β/2600) = 1.003-(15.6/2600) = **0.997**

The ratio correction factor and phase angle for any point inside the 0.3 class parallelogram for 100% rated current will always produce a TCF between 0.997 and 1.003.



› Figure 2: CT Equivalent Parallelogram.

VOLTAGE TRANSFORMERS (VT)

The accuracy class of a voltage transformer for measuring is given by a number (class rate) representing the ratio error limit expressed as a percentage of the rated primary voltage when the transformer is running at its “accuracy load”.

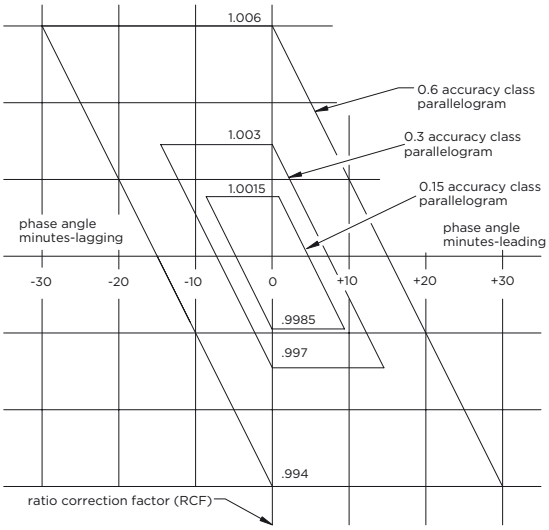
Accuracy classes for voltage transformers are: 0.15; 0.3; 0.6 and 1.2.

The following example calculates the correction factor for a voltage transformer with the following characteristics:

- 0.3 accuracy class
- 100% rated voltage
- Ratio correction factor: 1.003
- Maximum allowable phase angle: -15.6 minutes

Transformer Correction Factor = RCF + (γ/2600) = **1.003 + (-15.6/2600) = 0.997**

The ratio correction factor and phase angle for any point inside the 0.3 class parallelogram, will always produce a TCF between 0.997 and 1.003.



› Figure 3: VT Equivalent Parallelogram.

ACCURACY STANDARDS

HIGH ACCURACY EXTENDED RANGE CURRENT TRANSFORMERS

Extended range current transformers are designed for modern power generation systems. They accurately measure a wider range of current without making physical changes in the primary or in the secondary connections of a current transformer.

To ensure the best performance on nominal primary current readings from 1% to Rating factor (please, see charts below), these current transformers have been designed using magnetic materials that minimize excitation losses and a winding distribution that virtually eliminates stray losses.

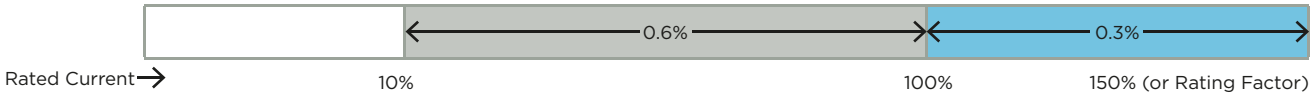
High accuracy extended range current transformers can increase utility revenue through improved metering. This occurs on systems with variable currents such as wind or solar power generation. In the past, current transformers were designed to accurately measure down to 10% of the current rating on the name plate of the transformer.

However, the recent deployment of variable generation has created a need to accurately measure a new range of currents produced by these systems; especially below the rated current of the transformer.

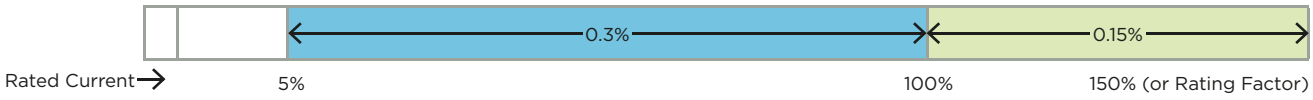
Historically, some energy usage revenue went unmeasured. Today Arteche's high accuracy extended range current transformers accurately measure these variable loads.

Extended range current transformers answer "Standard CT's problem" by expanding the amperage load that can be accurately measured. The wider current range helps to reduce the number of different ratios, reducing the amount of inventory needed to respond to customer demands.

› **"Standard Class 0.3"** means that from 100% of nominal current through the rating factor, accuracy is guaranteed to be ±0.3%. and from 10% of nominal current through 100% of nominal current accuracy is guaranteed to be ±0.6%.

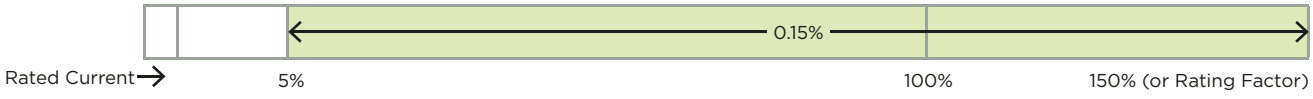


› **"High Accuracy Class 0.15"** means that from 100% of nominal current through the rating factor, accuracy is guaranteed to be ±0.15%, and from 5% of nominal current through 100% of nominal current accuracy is guaranteed to be ±0.3%.

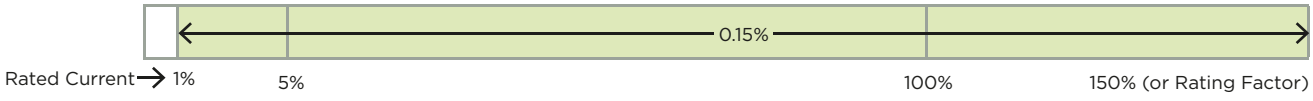


› **"Accuracy Class 0.3S"** means that from 5% of nominal current through the rating factor, accuracy is guaranteed to be ±0.3%.

› **"Accuracy Class 0.15S"** means that from 5% of nominal current through the rating factor, accuracy is guaranteed to be ±0.15%.



› **"High Accuracy. Extended Range Class 0.15"** means that from 1% of nominal current through the rating factor, accuracy is guaranteed to be ±0.15%. This goes beyond IEEE C57.13 requirements.



OTHER INFORMATION

CURRENT TRANSFORMERS

Standard burden characteristics @ 60Hz and 5Amps secondary

Burden designation	Resistance (ohms)	Inductance (millihenrys)	Impedance (ohms)	Volt-Amperes	Power factor
METERING BURDENS					
B-0.1	0.09	0.116	0.1	2.5	1.0
B-0.2	0.18	0.232	0.2	5.0	0.9
B-05	0.45	0.580	0.5	12.5	0.9
B-0.9	0.81	1.040	0.9	22.5	0.9
B-1.8	1.62	2.080	1.8	45.0	0.9
RELAYING BURDENS					
B-1	0.5	2.3	1.0	25	0.5
B-2	1.0	4.6	2.0	50	0.5
B-4	2.0	9.2	4.0	100	0.5
B-8	4.0	18.5	8.0	200	0.5

As per IEEE C57.13-2016. Tables 10 and 13.

VOLTAGE TRANSFORMERS

Standard burden @ 60Hz

Burden designation	Secondary Volt-Amperes	Burden Power Factor
W	12.5	0.10
X	25.0	0.70
M	35.0	0.20
Y	75.0	0.85
Z	200.0	0.85
ZZ	400.0	0.85

As per IEEE C57.13-2016. Table 19.

CROSS REFERENCE OF MOST COMMONLY USED TYPES

INDOOR

Current transformer				Voltage transformer			
ARTECHE	GE	ABB	KUHLMAN	ARTECHE	GE	ABB	KUHLMAN
CID-17	JKM-5.5A	KIR-11	CID-17	U/VCE-17	JVM-4.5	VIZ-11	U/VCD-17

OUTDOOR

Current transformer				Voltage transformer			
ARTECHE	GE	ABB	KUHLMAN	ARTECHE	GE	ABB	KUHLMAN
CRB-17	JCK-5	KOR-11	BB-15-972	VRL-17	JVW-3	VOY-60	PTT-110-977
CRE-17	JKW-3.4	KOR-60.75	BB-15-971 & BB-15-971H	URJ-17	JVW-4.5	VOZ-75	PTT-110-9710G
				VRJ-17	JVW-4.5	VOZ-75	PTT-110-9710
CRE-24	JKW-6	KON-12	BB-25-974	URN-17	JVW-6	VOG-12	PTT-150-9710G
CRF-24	JKW-6	KOR-15C	BB-25-973 & BB-25-973H	VRN-17	JVW-4.5	VOZ-75	PTT-110-9710
				URN-24	JVW-6	VOY-15G	PTT-150-9710G
CRF-36	JKW-7	KOR-20	BB-34-975 & BB-34-976	VRN-24	JVW-6	VOY-15	PTT-150-9710
				URS-36	JVW-7	VOY-20G	PTT-200-9710G
CE-034-E2	JKW-150.200	KOTD-150.200	LG(X)	VRS-36	JVW-7C	VOY-20	PTT-200-9710
				URU-52	JVS-250	VOZZ-25G	--
CE-046-E2	JKW-250	KOTD-250	CE-046	VRU-52	JVT-250	VOZZ-25	--
CE-069-E2	JKW-350	--	CE-069	URU-72	JVS-350	--	--

OTHER INFORMATION

IT TYPE DESIGNATIONS

	ARTECHE Design	1st position	2nd position	3rd position*	4th&5th position
5kV - 36kV					
CT's Indoor	ACA-36	A=CT Indoor transformer Up to 36 kV with DIN standard	C=insulation of resin	A=0.3 B0.1 up to B0.5	Insulation class: 12=8.7/26/75 kV 17=15/34/110 kV 24=25/50/150 kV 36=34.5/70/200 kV
	ACD-12. ACD-17. ACD-24			D=0.3 B0.1 up To B0.9 depending on the ratio	
	ACI-17			I=0.3 B0.5 up To B0.9 depending on the ratio	
	ACH-17. ACH-24			H=0.3 B0.5 up To B1.8 depending on the ratio	
	ACF-36			F=burden B0.5 up To B1.8 depending on the ratio	
	AGPE-12	A=CT Indoor transformer Up to 36 kV toroidal	G=insulation resin. window type	P=Burden B0.1 up to B1.8 C-200	E= indoor & outdoor service 12=8.7/26/75 kV
	CID-17	C=CT Indoor up to 34.5 kV only for America	I=insulation and molded in resin	D=0.3 B1.8 C-200	
VT's Indoor	VCE-7. VCE-17	V=Line To Line connection U=line to ground connection	C=insulation and molded in resin X=insulation and molded in resin with relief valve	Accuracy and burden: E=0.3WX. 0.3WXY Accuracy and burden: I.L.J.N=0.3WXY	Insulation class: 12=8.7/26/75 kV 17=15/34/110 kV 24=25/50/150 kV 36=34.5/70/200 kV 52=46/95/250 kV 72=69/140/350 kV
	UCE-7. UCE-17				
	UXI-12				
	UCI-17				
	VCL-17. VCL-24				
	UXL-17				
	UCJ-24				
	VCN-36				
	UXN-36				
	UEI-24	U=line to ground connection	E=Insulation and molded in resin with metal coated body	I=0.3WXY	24=25/50/150 kV
5kV - 72kV					
CT's Outdoor	CRB-17	C=CT Outdoor up to 69 kV. post type	R=insulation of cycloaliphatic resin	B=0.3B0.5	Insulation class: 17=15/34/110 kV 24=25/50/150 kV 36=34.5/70/200 kV 52=46/95/250 kV 72=69/140/350 kV
	CRE-17. CRE-24			E=0.3B1.8 T-150	
	CRF-24. CRF-36			F=0.3B1.8 T-200	
	CRH-36. CRH-52. CRH-72			H=0.3B1.8 T-200	
	CRK-36. CRK-52. CRK-72			K=0.3B1.8 T-400	
	CE-034-E2	C=CT Outdoor up to 69 kV. top-core with metal coated head	E=Insulation of cycloaliphatic resin and top-core with metal coated head	3rd.4th&5th position Insulation level: 034= 34.5/70/200 kV 046= 46/95/250 kV 069= 69/140/350 kV	6th position Accuracy and burden E2=0.3B1.8 T-400
	CE-046-E2				
	CE-069-E2				
VT's Outdoor	VRL-17	V=line To Line connection U=line to ground connection	R=insulation Of cycloaliphatic resin	Accuracy and burden L.J.N.S=0.3WXY	Insulation class: 17= 15/34/110 kV 24=25/50/150 kV 36=34.5/70/200 kV
	URL-17				
	VRJ-17. VRJ-24				
	URJ-17				
	VRN-17. VRN-24				
	URN-17. URN-24				
	VRS-36				
	URS-36				
	VRU-52			U=0.3WXYZ	52=46/95/250 kV 72=69/140/350 kV
	URU-52				
	URU-72				

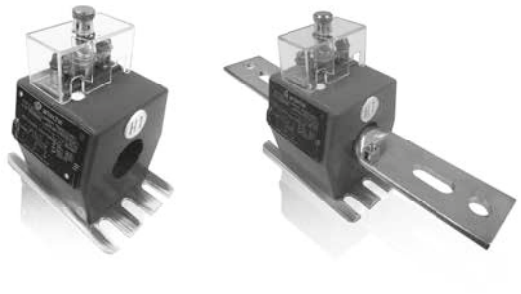
*The letter in the 3rd position is the size of the CT. each letter means a different size. increasing the size in alphabetical order.

arteche

600 V INSTRUMENT TRANSFORMERS

IRH-1

600 V CURRENT TRANSFORMER

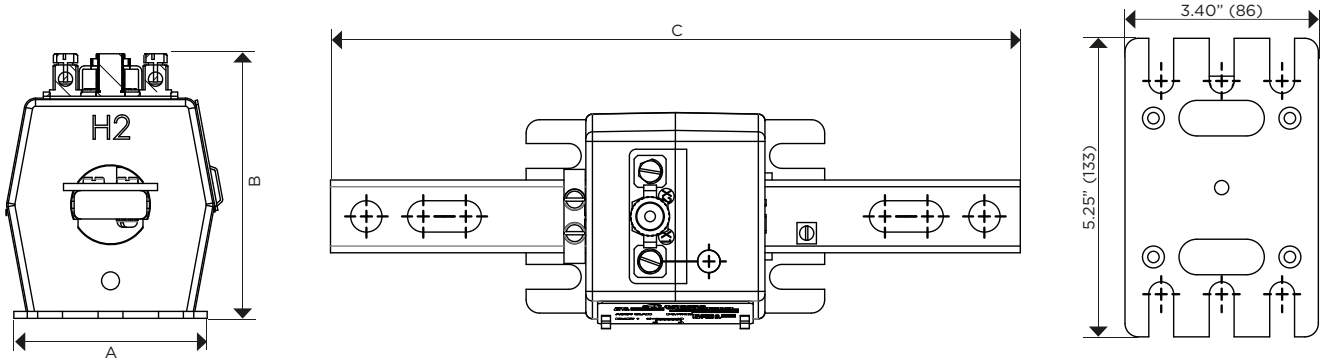


INDOOR-OUTDOOR
60 Hertz

ARTECHE IRH series are dry type indoor/outdoor service current transformers. The core is encapsulated with epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

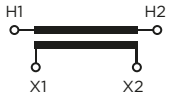
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

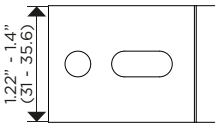
Mechanical characteristics	
Insulation Material	Color
Resin	Blue



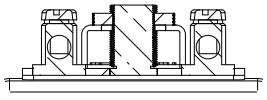
Drawing	A	B	C	Weight	Type
4287699	3.66"	4.65"	12.13"	7.5 Lb	Bar

MARKING (Single Primary Ratio)	ONE SECONDARY	CONNEC-TIONS	PRIMARY TERMINAL	SECONDARY TERMINALS AND SHORT CIRCUIT DEVICE





Type: NEMA2
Material: Copper



Secondary terminals.
Type: Quick Connector
Material: Brass
Diameter: 1/4"

Approximate dimensions in inches (mm).

IRH-1

600 V CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Continuous Thermal Current Rating Factor @ 55°C	IEEE Metering Accuracy	Drawing number	Type	Window Size	Accesories	Accuracy metering explanation
735225040	200:5	3.0	2.0	0.3 B0.2	4287759	Bar	1.22″	Complete	
735225060	300:5	2.0	1.5	0.3 B0.5	4287759	Bar	1.22″	Complete	
735225080	400:5	2.0	1.5	0.3 B0.5	4287759	Bar	1.4″	Complete	
735225100	500:5	2.0	1.5	0.3 B0.5	4287759	Bar	1.4″	Complete	
735225120	600:5	2.0	1.5	0.3 B0.5	4287759	Bar	1.4″	Complete	
735225160	800:5	1.5	1.2	0.3 B0.5	4287759	Bar	1.4″	Complete	
735220061	200:5	3.0	2.0	0.3 B0.2	4287759	Bar	1.22″	No base	
735220063	300:5	2.0	1.5	0.3 B0.5	4287759	Bar	1.22″	No base	
735220064	400:5	2.0	1.5	0.3 B0.5	4287759	Bar	1.4″	No base	
735220065	500:5	2.0	1.5	0.3 B0.5	4287759	Bar	1.4″	No base	
735220066	600:5	2.0	1.5	0.3 B0.5	4287759	Bar	1.4″	No base	
735220067	800:5	1.5	1.2	0.3 B0.5	4287759	Bar	1.4″	No base	
735220076	200:5	3.0	2.0	0.3 B0.2	4287759	Bar	1.22″	No base/no cover	
735220078	300:5	2.0	1.5	0.3 B0.5	4287759	Bar	1.22″	No base/no cover	
735220079	400:5	2.0	1.5	0.3 B0.5	4287759	Bar	1.4″	No base/no cover	
735220080	500:5	2.0	1.5	0.3 B0.5	4287759	Bar	1.4″	No base/no cover	
735220081	600:5	2.0	1.5	0.3 B0.5	4287759	Bar	1.4″	No base/no cover	
735220082	800:5	1.5	1.2	0.3 B0.5	4287759	Bar	1.4″	No base/no cover	
735227120	600:5	2.0	1.5	0.15S B0.2	4287699	Window	1.4″	Complete	5% to RF
735220030	600:5	2.0	1.5	0.15S B0.2	4287699	Window	1.4″	No base	5% to RF
735220045	600:5	2.0	1.5	0.15S B0.2	4287699	Window	1.4″	No base/no cover	5% to RF
735228120	600:5	2.0	1.5	0.15S B0.2	4287759	Bar	1.4″	Complete	5% to RF
735220090	600:5	2.0	1.5	0.15S B0.2	4287759	Bar	1.4″	No base	5% to RF
735220105	600:5	2.0	1.5	0.15S B0.2	4287759	Bar	1.4″	No base/no cover	5% to RF
735220230	400:5	2.0	1.5	0.15 B0.2*	4287759	Bar	1.4″	Complete	*Accuracy range: 1% to RF

Additional ratings available upon request.

Notes: .....

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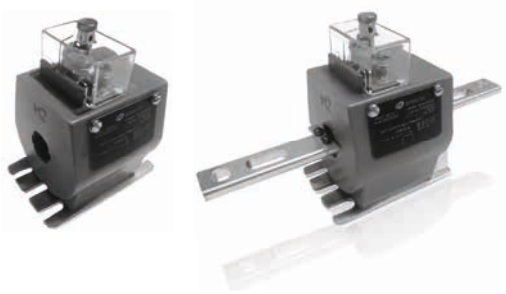
IRH-1E

600 V CURRENT TRANSFORMER

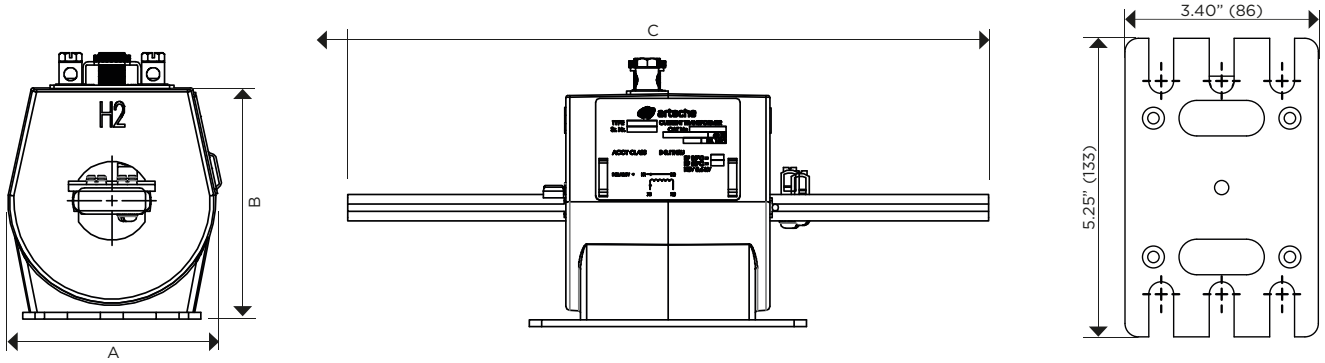


ARTECHE IRH series are dry type indoor/outdoor service current transformers. The core is encapsulated with epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

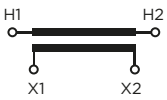
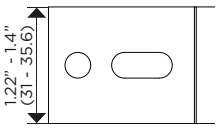
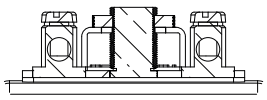
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

INDOOR-OUTDOOR
60 Hertz

Mechanical characteristics	
Insulation Material	Color
Resin	Blue



Drawing	A	B	C	Weight	Type
4288499	3.91"	4.36"	12.13"	8 Lb	Bar

MARKING (Single Primary Ratio)	ONE SECONDARY	CONNEC-TIONS	PRIMARY TERMINAL	SECONDARY TERMINALS AND SHORT CIRCUIT DEVICE
			 Type: NEMA2 Material: Copper	 Secondary terminals. Type: Quick Connector Material: Brass Diameter: 1/4"

Approximate dimensions in inches (mm).

IRH-1E

600 V CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Continuous Thermal Current Rating Factor @ 55°C	IEEE Metering Accuracy	Drawing number	Type	Window Size	Accesories	Accuracy metering explanation
735221040	200:5	3.0	2.0	0.3 B0.2	4288499	Window	1.5″	Complete	
735221060	300:5	2.0	1.5	0.3 B0.5	4288499	Window	1.5″	Complete	
735221080	400:5	2.0	1.5	0.3 B0.5	4288499	Window	2″	Complete	
735221120	600:5	1.5	1.2	0.3 B0.5	4288499	Window	2″	Complete	
735220000	200:5	3.0	2.0	0.3 B0.2	4288499	Window	1.5″	No base	
735220001	300:5	2.0	1.5	0.3 B0.5	4288499	Window	1.5″	No base	
735220002	400:5	2.0	1.5	0.3 B0.5	4288499	Window	2″	No base	
735220003	600:5	1.5	1.2	0.3 B0.5	4288499	Window	2″	No base	
735220015	200:5	3.0	2.0	0.3 B0.2	4288499	Window	1.5″	No base/no cover	
735220016	300:5	2.0	1.5	0.3 B0.5	4288499	Window	1.5″	No base/no cover	
735220017	400:5	2.0	1.5	0.3 B0.5	4288499	Window	2″	No base/no cover	
735220018	600:5	1.5	1.2	0.3 B0.5	4288499	Window	2″	No base/no cover	
735225020	100:5	1.5	1.2	0.3 B0.2	4288711	Bar	1.22″	Complete	
735220060	100:5	1.5	1.2	0.3 B0.2	4288711	Bar	1.22″	No base	
735220075	100:5	1.5	1.2	0.3 B0.2	4288711	Bar	1.22″	No base/no cover	
735220240	600:5	2.0	1.5	0.15S B0.2	4288499	Window	2″	Complete	5% to RF
735220069	600:5	2.0	1.5	0.15S B0.2	4288499	Window	2″	No base	5% to RF
735225177	600:5	2.0	1.5	0.15S B0.2	4288499	Window	2″	No base/no cover	5% to RF

Additional ratings available upon request.

Notes: .....

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IRH-3

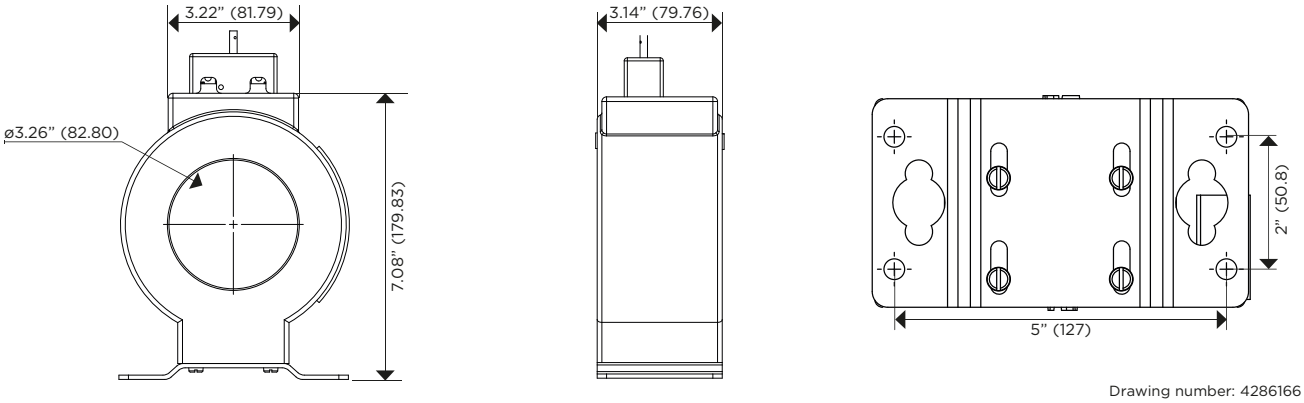
600 V CURRENT TRANSFORMER

INDOOR-
OUTDOOR
60 Hertz

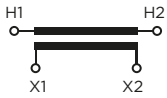
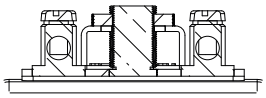
ARTECHE IRH series are dry type indoor/outdoor service current transformers. The core is encapsulated with epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Mechanical characteristics		
Insulation Material	Color	Weight (lbs.)
Resin	Blue	8.8



Drawing number: 4286166

MARKING (Single Primary Ratio)	ONE SECONDARY	CONNEC-TIONS	SECONDARY TERMINALS AND SHORT CIRCUIT DEVICE
			 Secondary terminals. Type: Quick Connector Material: Brass Diameter: 1/4"

Approximate dimensions in inches (mm).

IRH-3

600 V CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Continuous Thermal Current Rating Factor @ 55°C	IEEE Metering Accuracy
735261060	300:5	1.2	1.0	0.6B0.1/1.2B0.2
735261080	400:5	1.2	1.0	0.6B0.2/1.2B0.5
735261100	500:5	1.2	1.0	0.6B0.5
735261120	600:5	1.2	1.0	0.3B0.1/0.6B1.0
735261160	800:5	1.2	1.0	0.3B0.2/0.6B1.0
735261200	1000:5	1.2	1.0	0.3B0.5/0.6B2.0
735261240	1200:5	1.2	1.0	0.3B0.5/0.6B2.0

Additional ratings available upon request.

Notes:

IRH-5

600 V CURRENT TRANSFORMER

ARTECHE IRH series are dry type indoor/outdoor service current transformers. The core is encapsulated with epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation, The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

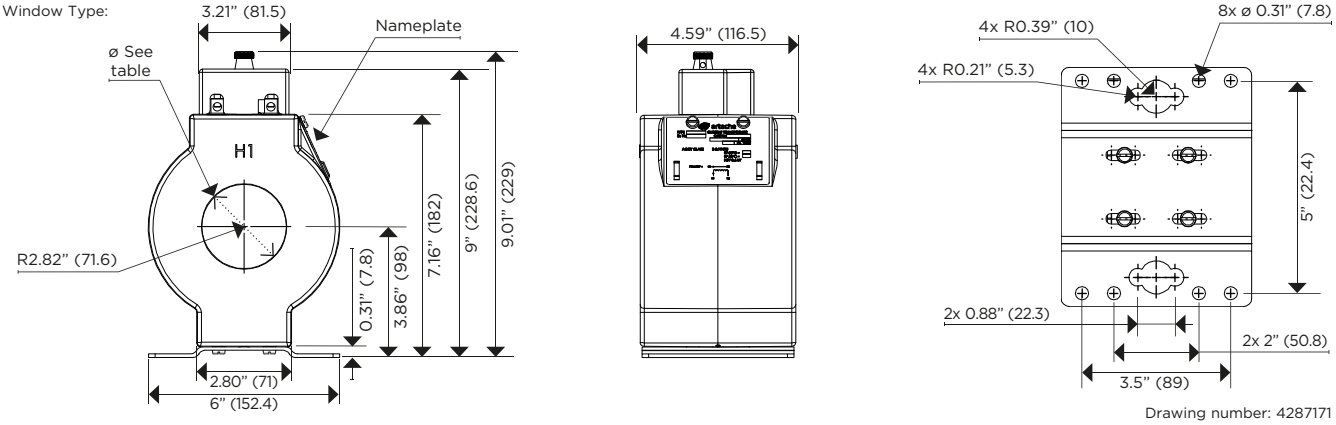
INDOOR-OUTDOOR
60 Hertz

UL Recognized Component File No.:E252140

Mechanical characteristics

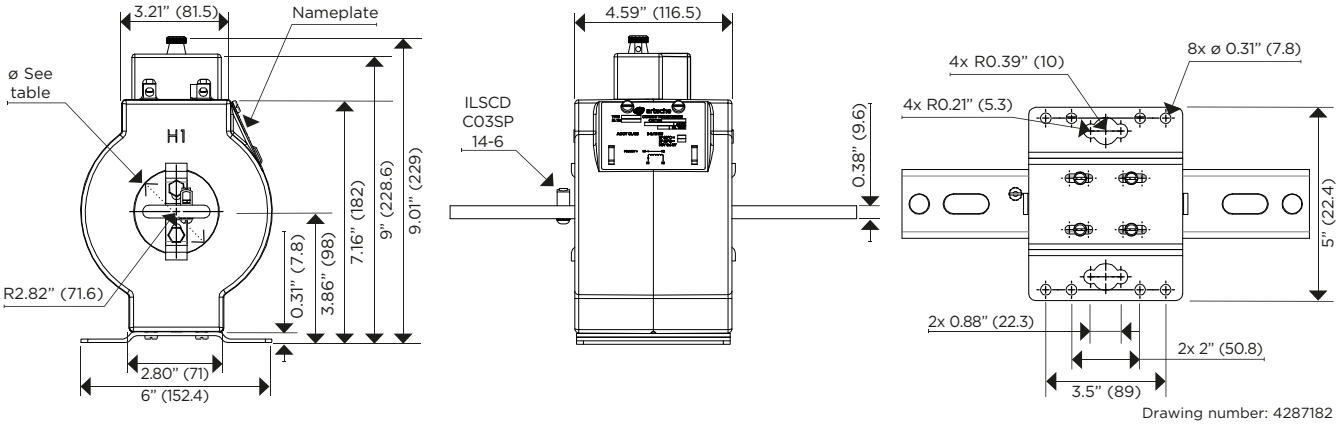
Insulation Material	Color	Weight (lbs.)
Resin	Blue	Window Type: 10/12 / Primary Bar Type: 15

Window Type:

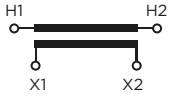
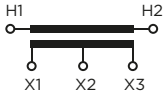
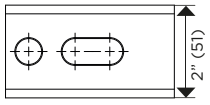
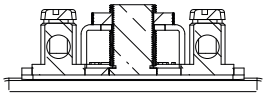


Drawing number: 4287171

Primary Bar Type:



Drawing number: 4287182

MARKING (Single Primary Ratio)	ONE SECONDARY	ONE SECONDARY with tap	CONNECTIONS	PRIMARY TERMINAL	SECONDARY TERMINALS AND SHORT CIRCUIT DEVICE
					
	H1 H2 X1 X2	H1 H2 X1 X2 X3		2" (51)	
				Type: NEMA2 Material: Copper	Secondary terminals. Type: Quick Connector Material: Brass Diameter: 1/4"

Approximate dimensions in inches (mm).

IRH-5

600 V CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Continuous Thermal Current Rating Factor @ 55°C	IEEE Metering Accuracy	Drawing number	Type	Window Size	Accesories
735301010	50:5	4.0	3.0	1.2 B0.1	4287171	Window	2.55"	Complete
735301020	100:5	4.0	3.0	0.3 B0.1	4287171	Window	2.55"	Complete
735301040	200:5	4.0	3.0	0.3 B0.5	4287171	Window	2.55"	Complete
735301060	300:5	4.0	3.0	0.3 B0.5	4287171	Window	3.15"	Complete
735301080	400:5	4.0	3.0	0.3 B0.5	4287171	Window	3.15"	Complete
735301100	500:5	3.0	2.2	0.3 B0.5	4287171	Window	3.15"	Complete
735301120	600:5	2.0	1.5	0.3 B0.5	4287171	Window	3.15"	Complete
735301160	800:5	2.0	1.5	0.3 B0.5	4287171	Window	3.15"	Complete
735301200	1000:5	2.0	1.5	0.3 B0.5	4287171	Window	3.15"	Complete
735301240	1200:5	1.5	1.2	0.3 B1.8	4287171	Window	3.15"	Complete
735302040	200/400:5	4.0/2.0	3.0/1.5	0.3 B0.2/0.3 B0.5	4287171	Window	2.55"	Complete
735302060	300/600:5	3.0/2.0	2.2/1.5	0.3 B0.2/0.3 B0.5	4287171	Window	3.15"	Complete
735302080	400/800:5	2.0/2.0	1.5/1.5	0.3 B0.2/0.3 B0.5	4287171	Window	3.15"	Complete
735300060	50:5	4.0	3.0	1.2 B0.1	4287171	Window	2.55"	No base
735300061	100:5	4.0	3.0	0.3 B0.1	4287171	Window	2.55"	No base
735300062	200:5	4.0	3.0	0.3 B0.5	4287171	Window	2.55"	No base
735300063	300:5	4.0	3.0	0.3 B0.5	4287171	Window	3.15"	No base
735300064	400:5	4.0	3.0	0.3 B0.5	4287171	Window	3.15"	No base
735300065	500:5	3.0	2.2	0.3 B0.5	4287171	Window	3.15"	No base
735300066	600:5	2.0	1.5	0.3 B0.5	4287171	Window	3.15"	No base
735300067	800:5	2.0	1.5	0.3 B0.5	4287171	Window	3.15"	No base
735300068	1000:5	2.0	1.5	0.3 B0.5	4287171	Window	3.15"	No base
735300069	1200:5	1.5	1.2	0.3 B1.8	4287171	Window	3.15"	No base
735300180	200/400:5	4.0/2.0	3.0/1.5	0.3 B0.2/0.3 B0.5	4287171	Window	2.55"	No base
735300181	300/600:5	3.0/2.0	2.2/1.5	0.3 B0.2/0.3 B0.5	4287171	Window	3.15"	No base
735300182	400/800:5	2.0/2.0	1.5/1.5	0.3 B0.2/0.3 B0.5	4287171	Window	3.15"	No base
735300080	50:5	4.0	3.0	1.2 B0.1	4287171	Window	2.55"	No base/no cover
735300081	100:5	4.0	3.0	0.3 B0.1	4287171	Window	2.55"	No base/no cover
735300082	200:5	4.0	3.0	0.3 B0.5	4287171	Window	2.55"	No base/no cover
735300083	300:5	4.0	3.0	0.3 B0.5	4287171	Window	3.15"	No base/no cover
735300084	400:5	4.0	3.0	0.3 B0.5	4287171	Window	3.15"	No base/no cover
735300085	500:5	3.0	2.2	0.3 B0.5	4287171	Window	3.15"	No base/no cover
735300086	600:5	2.0	1.5	0.3 B0.5	4287171	Window	3.15"	No base/no cover
735300087	800:5	2.0	1.5	0.3 B0.5	4287171	Window	3.15"	No base/no cover
735300088	1000:5	2.0	1.5	0.3 B0.5	4287171	Window	3.15"	No base/no cover
735300089	1200:5	1.5	1.2	0.3 B1.8	4287171	Window	3.15"	No base/no cover
735300200	200/400:5	4.0/2.0	3.0/1.5	0.3 B0.2/0.3 B0.5	4287171	Window	2.55"	No base/no cover
735300201	300/600:5	3.0/2.0	2.2/1.5	0.3 B0.2/0.3 B0.5	4287171	Window	3.15"	No base/no cover
735300202	400/800:5	2.0/2.0	1.5/1.5	0.3 B0.2/0.3 B0.5	4287171	Window	3.15"	No base/no cover
735305010	50:5	4.0	3.0	1.2 B0.1	4287182	Nema 2 Bar Type	2.55"	Complete
735305020	100:5	4.0	3.0	0.3 B0.1	4287182	Nema 2 Bar Type	2.55"	Complete
735305040	200:5	4.0	3.0	0.3 B0.5	4287182	Nema 2 Bar Type	2.55"	Complete
735305060	300:5	4.0	3.0	0.3 B0.5	4287182	Nema 2 Bar Type	3.15"	Complete
735305080	400:5	4.0	3.0	0.3 B0.5	4287182	Nema 2 Bar Type	3.15"	Complete
735305100	500:5	3.0	2.2	0.3 B0.5	4287182	Nema 2 Bar Type	3.15"	Complete
735305120	600:5	2.0	1.5	0.3 B0.5	4287182	Nema 2 Bar Type	3.15"	Complete
735305160	800:5	2.0	1.5	0.3 B0.5	4287182	Nema 2 Bar Type	3.15"	Complete
735305200	1000:5	2.0	1.5	0.3 B0.5	4287182	Nema 2 Bar Type	3.15"	Complete
735305240	1200:5	1.5	1.2	0.3 B1.8	4287182	Nema 2 Bar Type	3.15"	Complete
735306040	200/400:5	4.0/2.0	3.0/1.5	0.3 B0.2/0.3 B0.5	4287182	Nema 2 Bar Type	2.55"	Complete
735306060	300/600:5	3.0/2.0	2.2/1.5	0.3 B0.2/0.3 B0.5	4287182	Nema 2 Bar Type	3.15"	Complete
735306080	400/800:5	2.0/2.0	1.5/1.5	0.3 B0.2/0.3 B0.5	4287182	Nema 2 Bar Type	3.15"	Complete
735300100	50:5	4.0	3.0	1.2 B0.1	4287182	Nema 2 Bar Type	2.55"	No base
735300101	100:5	4.0	3.0	0.3 B0.1	4287182	Nema 2 Bar Type	2.55"	No base
735300102	200:5	4.0	3.0	0.3 B0.5	4287182	Nema 2 Bar Type	2.55"	No base
735300103	300:5	4.0	3.0	0.3 B0.5	4287182	Nema 2 Bar Type	3.15"	No base
735300104	400:5	4.0	3.0	0.3 B0.5	4287182	Nema 2 Bar Type	3.15"	No base
735300105	500:5	3.0	2.2	0.3 B0.5	4287182	Nema 2 Bar Type	3.15"	No base
735300106	600:5	2.0	1.5	0.3 B0.5	4287182	Nema 2 Bar Type	3.15"	No base
735300107	800:5	2.0	1.5	0.3 B0.5	4287182	Nema 2 Bar Type	3.15"	No base

IRH-5

600 V CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Continuous Thermal Current Rating Factor @ 55°C	IEEE Metering Accuracy	Drawing number	Type	Window Size	Accesories
735300108	1000:5	2.0	1.5	0.3 B0.5	4287182	Nema 2 Bar Type	3.15″	No base
735300109	1200:5	1.5	1.2	0.3 B1.8	4287182	Nema 2 Bar Type	3.15″	No base
735300220	200/400:5	4.0/2.0	3.0/1.5	0.3 B0.2/0.3 B0.5	4287182	Nema 2 Bar Type	2.55″	No base
735300221	300/600:5	3.0/2.0	2.2/1.5	0.3 B0.2/0.3 B0.5	4287182	Nema 2 Bar Type	3.15″	No base
735300222	400/800:5	2.0/2.0	1.5/1.5	0.3 B0.2/0.3 B0.5	4287182	Nema 2 Bar Type	3.15″	No base
735300121	50:5	4.0	3.0	1.2 B0.1	4287182	Nema 2 Bar Type	2.55″	No base/no cover
735300122	100:5	4.0	3.0	0.3 B0.1	4287182	Nema 2 Bar Type	2.55″	No base/no cover
735300123	200:5	4.0	3.0	0.3 B0.5	4287182	Nema 2 Bar Type	2.55″	No base/no cover
735300124	300:5	4.0	3.0	0.3 B0.5	4287182	Nema 2 Bar Type	3.15″	No base/no cover
735300125	400:5	4.0	3.0	0.3 B0.5	4287182	Nema 2 Bar Type	3.15″	No base/no cover
735300126	500:5	3.0	2.2	0.3 B0.5	4287182	Nema 2 Bar Type	3.15″	No base/no cover
735300127	600:5	2.0	1.5	0.3 B0.5	4287182	Nema 2 Bar Type	3.15″	No base/no cover
735300128	800:5	2.0	1.5	0.3 B0.5	4287182	Nema 2 Bar Type	3.15″	No base/no cover
735300129	1000:5	2.0	1.5	0.3 B0.5	4287182	Nema 2 Bar Type	3.15″	No base/no cover
735300130	1200:5	1.5	1.2	0.3 B1.8	4287182	Nema 2 Bar Type	3.15″	No base/no cover
735300240	200/400:5	4.0/2.0	3.0/1.5	0.3 B0.2/0.3 B0.5	4287182	Nema 2 Bar Type	2.55″	No base/no cover
735300241	300/600:5	3.0/2.0	2.2/1.5	0.3 B0.2/0.3 B0.5	4287182	Nema 2 Bar Type	3.15″	No base/no cover
735300242	400/800:5	2.0/2.0	1.5/1.5	0.3 B0.2/0.3 B0.5	4287182	Nema 2 Bar Type	3.15″	No base/no cover
735300003	300:5	4.0	3.0	0.3 B0.5	4288843	Nema 4 Bar Type (1)	3.15″	Complete
735300004	400:5	4.0	3.0	0.3 B0.5	4288843	Nema 4 Bar Type (2)	3.15″	Complete
735300005	500:5	3.0	2.2	0.3 B0.5	4288843	Nema 4 Bar Type (2)	3.15″	Complete
735300006	600:5	2.0	1.5	0.3 B0.5	4288843	Nema 4 Bar Type (1)	3.15″	Complete
735300007	800:5	2.0	1.5	0.3 B0.5	4288843	Nema 4 Bar Type (2)	3.15″	Complete
735300008	1000:5	2.0	1.5	0.3 B0.5	4288843	Nema 4 Bar Type (2)	3.15″	Complete
735300009	1200:5	1.5	1.2	0.3 B1.8	4288843	Nema 4 Bar Type (2)	3.15″	Complete
735300021	300/600:5	3.0/2.0	2.2/1.5	0.3 B0.2/0.3 B0.5	4288843	Nema 4 Bar Type (1)	3.15″	Complete
735300022	400/800:5	2.0/2.0	1.5/1.5	0.3 B0.2/0.3 B0.5	4288843	Nema 4 Bar Type (2)	3.15″	Complete
735300143	300:5	4.0	3.0	0.3 B0.5	4288843	Nema 4 Bar Type (1)	3.15″	No base
735300144	400:5	4.0	3.0	0.3 B0.5	4288843	Nema 4 Bar Type (2)	3.15″	No base
735300145	500:5	3.0	2.2	0.3 B0.5	4288843	Nema 4 Bar Type (2)	3.15″	No base
735300146	600:5	2.0	1.5	0.3 B0.5	4288843	Nema 4 Bar Type (1)	3.15″	No base
735300147	800:5	2.0	1.5	0.3 B0.5	4288843	Nema 4 Bar Type (2)	3.15″	No base
735300148	1000:5	2.0	1.5	0.3 B0.5	4288843	Nema 4 Bar Type (2)	3.15″	No base
735300149	1200:5	1.5	1.2	0.3 B1.8	4288843	Nema 4 Bar Type (2)	3.15″	No base
735300261	300/600:5	3.0/2.0	2.2/1.5	0.3 B0.2/0.3 B0.5	4288843	Nema 4 Bar Type (1)	3.15″	No base
735300262	400/800:5	2.0/2.0	1.5/1.5	0.3 B0.2/0.3 B0.5	4288843	Nema 4 Bar Type (2)	3.15″	No base
735300163	300:5	4.0	3.0	0.3 B0.5	4288843	Nema 4 Bar Type (1)	3.15″	No base/no cover
735300164	400:5	4.0	3.0	0.3 B0.5	4288843	Nema 4 Bar Type (2)	3.15″	No base/no cover
735300165	500:5	3.0	2.2	0.3 B0.5	4288843	Nema 4 Bar Type (2)	3.15″	No base/no cover
735300166	600:5	2.0	1.5	0.3 B0.5	4288843	Nema 4 Bar Type (1)	3.15″	No base/no cover
735300167	800:5	2.0	1.5	0.3 B0.5	4288843	Nema 4 Bar Type (2)	3.15″	No base/no cover
735300168	1000:5	2.0	1.5	0.3 B0.5	4288843	Nema 4 Bar Type (2)	3.15″	No base/no cover
735300169	1200:5	1.5	1.2	0.3 B1.8	4288843	Nema 4 Bar Type (2)	3.15″	No base/no cover
735300281	300/600:5	3.0/2.0	2.2/1.5	0.3 B0.2/0.3 B0.5	4288843	Nema 4 Bar Type (1)	3.15″	No base/no cover
735300282	400/800:5	2.0/2.0	1.5/1.5	0.3 B0.2/0.3 B0.5	4288843	Nema 4 Bar Type (2)	3.15″	No base/no cover
735307120	600:5	2.0	1.5	0.15S B0.5	4287171	Window	3.15″	Complete
735300120	600:5	3.0	2.0	0.15S B0.2	4287171	Window	3.15″	Complete
735307200	1000:5	2.0	1.5	0.15S B0.5	4287171	Window	3.15″	Complete
735300300	600:5	2.0	1.5	0.15S B0.5	4287171	Window	3.15″	No base
735300301	600:5	3.0	2.0	0.15S B0.2	4287171	Window	3.15″	No base
735300302	1000:5	2.0	1.5	0.15S B0.5	4287171	Window	3.15″	No base
735300320	600:5	2.0	1.5	0.15S B0.5	4287171	Window	3.15″	No base/no cover
735300321	600:5	3.0	2.0	0.15S B0.2	4287171	Window	3.15″	No base/no cover
735300322	1000:5	2.0	1.5	0.15S B0.5	4287171	Window	3.15″	No base/no cover
735308120	600:5	2.0	1.5	0.15S B0.5	4287182	Nema 2 Bar Type	3.15″	Complete
735309120	600:5	3.0	2.0	0.15S B0.2	4287182	Nema 2 Bar Type	3.15″	Complete
735308200	1000:5	2.0	1.5	0.15S B0.5	4287182	Nema 2 Bar Type	3.15″	Complete
735300340	600:5	2.0	1.5	0.15S B0.5	4287182	Nema 2 Bar Type	3.15″	No base

IRH-5

600 V CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Continuous Thermal Current Rating Factor @ 55°C	IEEE Metering Accuracy	Drawing number	Type	Window Size	Accessories
735300341	600:5	3.0	2.0	0.15S B0.2	4287182	Nema 2 Bar Type	3.15"	No base
735300342	1000:5	2.0	1.5	0.15S B0.5	4287182	Nema 2 Bar Type	3.15"	No base
735300360	600:5	2.0	1.5	0.15S B0.5	4287182	Nema 2 Bar Type	3.15"	No base/no cover
735300361	600:5	3.0	2.0	0.15S B0.2	4287182	Nema 2 Bar Type	3.15"	No base/no cover
735300362	1000:5	2.0	1.5	0.15S B0.5	4287182	Nema 2 Bar Type	3.15"	No base/no cover
735300040	600:5	2.0	1.5	0.15S B0.5	4288843	Nema 4 Bar Type (1)	3.15"	Complete
735300041	600:5	3.0	2.0	0.15S B0.2	4288843	Nema 4 Bar Type (2)	3.15"	Complete
735300042	1000:5	2.0	1.5	0.15S B0.5	4288843	Nema 4 Bar Type (2)	3.15"	Complete
735300380	600:5	2.0	1.5	0.15S B0.5	4288843	Nema 4 Bar Type (1)	3.15"	No base
735300381	600:5	3.0	2.0	0.15S B0.2	4288843	Nema 4 Bar Type (2)	3.15"	No base
735300382	1000:5	2.0	1.5	0.15S B0.5	4288843	Nema 4 Bar Type (2)	3.15"	No base
735300400	600:5	2.0	1.5	0.15S B0.5	4288843	Nema 4 Bar Type (1)	3.15"	No base/no cover
735300401	600:5	3.0	2.0	0.15S B0.2	4288843	Nema 4 Bar Type (2)	3.15"	No base/no cover
735300402	1000:5	2.0	1.5	0.15S B0.5	4288843	Nema 4 Bar Type (2)	3.15"	No base/no cover
735300310	600:5	3.0	2.0	0.15 B0.2*	4287182	Nema 2 Bar Type	3.15"	Complete
735300330	1000:5	2.0	1.5	0.15 B0.5*	4287182	Nema 2 Bar Type	3.15"	Complete
735300346	1200:5	2.0	1.5	0.15 B0.5*	4287171	Window	3.15"	Complete
735300206	600:5	3.0	2.0	0.15 B0.2*	4287182	Nema 2 Bar Type	3.15"	No base
735300306	600:5	3.0	2.0	0.15 B0.2*	4288843	Nema 4 Bar Type (2)	3.15"	Complete
735300246	600:5	3.0	2.0	0.15 B0.2*	4288843	Nema 4 Bar Type (2)	3.15"	No base
735301300	600:5	3.0	2.0	0.15 B0.2*	4287171	Window	3.15"	Complete
735300266	600:5	3.0	2.0	0.15 B0.2*	4287171	Window	3.15"	No base
735300208	1000:5	2.0	1.5	0.15 B0.5*	4287182	Nema 2 Bar Type	3.15"	No base
735300308	1000:5	2.0	1.5	0.15 B0.5*	4288843	Nema 4 Bar Type (2)	3.15"	Complete
735300248	1000:5	2.0	1.5	0.15 B0.5*	4288843	Nema 4 Bar Type (2)	3.15"	No base
735301320	1000:5	2.0	1.5	0.15 B0.5*	4287171	Window	3.15"	Complete
735300268	1000:5	2.0	1.5	0.15 B0.5*	4287171	Window	3.15"	No base
735300269	1200:5	2.0	1.5	0.15 B0.5*	4287171	Window	3.15"	No base
735305340	1200:5	2.0	1.5	0.15 B0.5*	4287182	Nema 2 Bar Type	3.15"	Complete
735300209	1200:5	2.0	1.5	0.15 B0.5*	4287182	Nema 2 Bar Type	3.15"	No base
735300309	1200:5	2.0	1.5	0.15 B0.5*	4288843	Nema 4 Bar Type (2)	3.15"	Complete
735300249	1200:5	2.0	1.5	0.15 B0.5*	4288843	Nema 4 Bar Type (2)	3.15"	No base

* Accuracy range: 1% to RF HAER

Notes:

IRH-7

600 V CURRENT TRANSFORMER

INDOOR-
OUTDOOR
60 Hertz

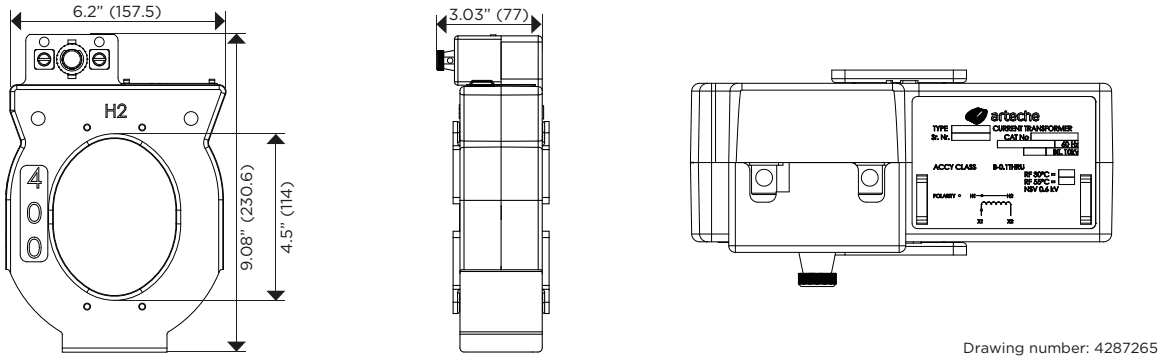
ARTECHE IRH series are dry type indoor/outdoor service current transformers. The core is encapsulated with epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

UL Recognized Component File No.:E252140

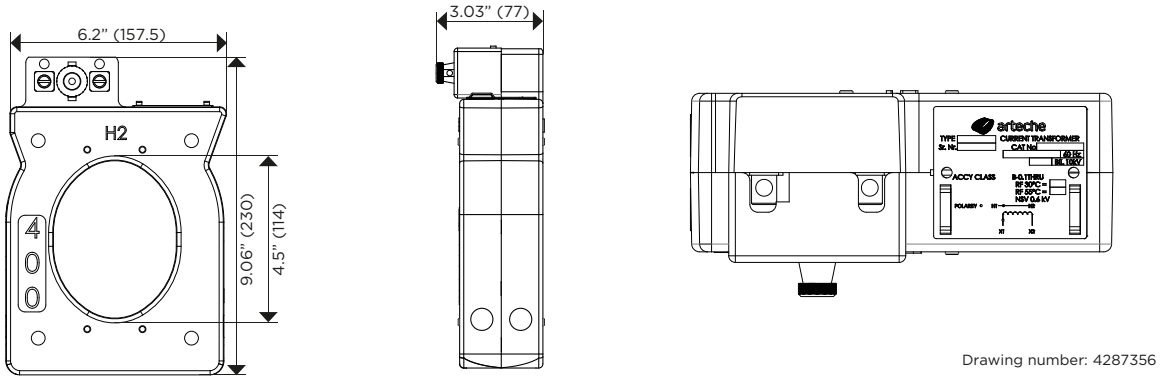
Mechanical characteristics		
Insulation Material	Color	Weight (lbs.)
Resin	Blue	Tapered Type: 7.5 / Wide Type: 8.5

Tapered Type:



Drawing number: 4287265

Wide Type:



Drawing number: 4287356

MARKING (Single Primary Ratio)	ONE SECONDARY	CONNEC-TIONS	SECONDARY TERMINALS AND SHORT CIRCUIT DEVICE
	H1 H2 X1 X2		Secondary terminals. Type: Quick Connector Material: Brass Diameter: 1/4"

Approximate dimensions in inches.

IRH-7

600 V CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Continuous Thermal Current Rating Factor @ 55°C	IEEE Metering Accuracy	Drawing number	Type	Window Size	Accuracy metering explanation
735323020	100:5	4.0	3.0	1.2 B0.1	4287265	Tapered	4.5X3.5"	
735323040	200:5	4.0	3.0	0.3 B0.1	4287265	Tapered	4.5X3.5"	
735323060	300:5	4.0	3.0	0.3 B0.2	4287265	Tapered	4.5X3.5"	
735323080	400:5	4.0	3.0	0.3 B0.2	4287265	Tapered	4.5X3.5"	
735323100	500:5	3.0	2.2	0.3 B0.5	4287265	Tapered	4.5X3.5"	
735323120	600:5	3.0	2.2	0.3 B0.5	4287265	Tapered	4.5X3.5"	
735323160	800:5	3.0	2.2	0.3 B0.5	4287265	Tapered	4.5X3.5"	
735323200	1000:5	2.0	1.5	0.3 B0.5	4287265	Tapered	4.5X3.5"	
735323240	1200:5	2.0	1.5	0.3 B0.9	4287265	Tapered	4.5X3.5"	
735323300	1500:5	2.0	1.5	0.3 B0.9	4287265	Tapered	4.5X3.5"	
735323400	2000:5	1.5	1.2	0.3 B1.8	4287265	Tapered	4.5X3.5"	
735323600	3000:5	1.3	1.0	0.3 B1.8	4287265	Tapered	4.5X3.5"	
735323800	4000:5	1.0	Z	0.3 B1.8	4287265	Tapered	4.5X3.5"	
735324020	100:5	4.0	3.0	1.2 B0.1	4287356	Wide	4.5X3.5"	
735324040	200:5	4.0	3.0	0.3 B0.1	4287356	Wide	4.5X3.5"	
735324060	300:5	4.0	3.0	0.3 B0.2	4287356	Wide	4.5X3.5"	
735324080	400:5	4.0	3.0	0.3 B0.2	4287356	Wide	4.5X3.5"	
735324100	500:5	3.0	2.2	0.3 B0.5	4287356	Wide	4.5X3.5"	
735324120	600:5	3.0	2.2	0.3 B0.5	4287356	Wide	4.5X3.5"	
735324160	800:5	3.0	2.2	0.3 B0.5	4287356	Wide	4.5X3.5"	
735324200	1000:5	2.0	1.5	0.3 B0.5	4287356	Wide	4.5X3.5"	
735324240	1200:5	2.0	1.5	0.3 B0.9	4287356	Wide	4.5X3.5"	
735324300	1500:5	2.0	1.5	0.3 B0.9	4287356	Wide	4.5X3.5"	
735324400	2000:5	1.5	1.2	0.3 B1.8	4287356	Wide	4.5X3.5"	
735324600	3000:5	1.3	1.0	0.3 B1.8	4287356	Wide	4.5X3.5"	
735324800	4000:5	1.0	0.75	0.3 B1.8	4287356	Wide	4.5X3.5"	
735327100	500:5	2.0	1.5	0.15S B0.2	4287265	Tapered	4.5X3.5"	5% to RF
735328100	500:5	2.0	1.5	0.15S B0.2	4287356	Wide	4.5X3.5"	5% to RF
735320250	1000:5	2.0	1.5	0.15S B0.5	4287265	Tapered	4.5X3.5"	5% to RF
735327400	2000:5	2.0	1.5	0.15S B0.5	4287265	Tapered	4.5X3.5"	5% to RF
735320230	600:5	2.0	1.5	0.15S B0.5	4287265	Tapered	4.5X3.5"	5% to RF
735328200	1000:5	2.0	1.5	0.15S B0.5	4287356	Wide	4.5X3.5"	5% to RF
735328400	2000:5	2.0	1.5	0.15S B0.5	4287356	Wide	4.5X3.5"	5% to RF
735320220	500:5	2.0	1.5	0.15 B0.2*	4287265	Tapered	4.5X3.5"	* Accuracy range: 1% to RF
735320225	600:5	2.0	1.5	0.15 B0.2*	4287265	Tapered	4.5X3.5"	* Accuracy range: 1% to RF
735320240	800:5	2.0	1.5	0.15 B0.5*	4287265	Tapered	4.5X3.5"	* Accuracy range: 1% to RF
735320010	1000:5	2.0	1.5	0.15 B0.5*	4287265	Tapered	4.5X3.5"	* Accuracy range: 1% to RF
735320260	2000:5	2.0	1.5	0.15 B0.5*	4287265	Tapered	4.5X3.5"	* Accuracy range: 1% to RF

Additional ratings available upon request.

Notes: .....

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IRH-10

600 V CURRENT TRANSFORMER

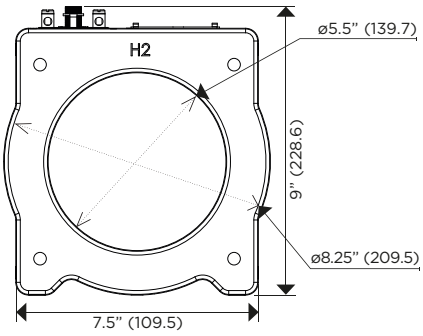
INDOOR-
OUTDOOR
60 Hertz

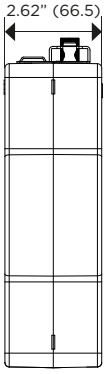
ARTECHE IRH series are dry type indoor/outdoor service current transformers. The core is encapsulated with epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

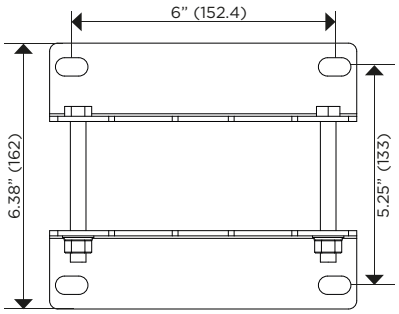
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

UL Recognized Component File No.:E252140

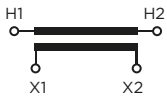
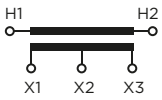
Mechanical characteristics		
Insulation Material	Color	Weight (lbs.)
Resin	Blue	13

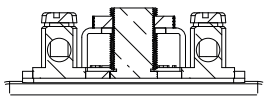






Drawing number: 4287273

	ONE SECONDARY	ONE SECONDARY with tap
MARKING (Single Primary Ratio)		

	SECONDARY TERMINALS AND SHORT CIRCUIT DEVICE
CONNECTIONS	 Secondary terminals. Type: Quick Connector Material: Brass Diameter: 1/4"

Approximate dimensions in inches (mm).

IRH-10

600 V CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Continuous Thermal Current Rating Factor @ 55°C	IEEE Metering Accuracy	Drawing number	Type	Window Size	Accessories
735341080	400:5	3.0	2.2	0.3 B0.2	4287273	Window	5.5"	Complete
735341100	500:5	4.0	3.0	0.3 B0.5	4287273	Window	5.5"	Complete
735341120	600:5	3.0	2.2	0.3 B0.5	4287273	Window	5.5"	Complete
735341160	800:5	2.0	1.5	0.3 B0.5	4287273	Window	5.5"	Complete
735341200	1000:5	2.0	1.5	0.3 B0.5	4287273	Window	5.5"	Complete
735341240	1200:5	2.0	1.5	0.3 B0.9	4287273	Window	5.5"	Complete
735341300	1500:5	3.0	2.2	0.3 B0.9	4287273	Window	5.5"	Complete
735341400	2000:5	2.0	1.5	0.3 B1.8	4287273	Window	5.5"	Complete
735341600	3000:5	1.5	1.2	0.3 B1.8	4287273	Window	5.5"	Complete
735341800	4000:5	1.33	1.0	0.3 B1.8	4287273	Window	5.5"	Complete
735342120	600/1200:5	3.0/2.0	2.2/1.5	0.3 B0.2/B0.9	4287273	Window	5.5"	Complete
735342160	800/1600:5	3.0/2.0	2.2/1.5	0.3 B0.2/B1.8	4287273	Window	5.5"	Complete
735342200	1000/2000:5	3.0/2.0	2.2/1.5	0.3 B0.5/B1.8	4287273	Window	5.5"	Complete
735342300	1500/3000:5	2.0/1.5	1.5/1.2	0.3 B0.9/B1.8	4287273	Window	5.5"	Complete
735342400	2000/4000:5	2.0/1.33	1.5/1.0	0.3 B1.8/B1.8	4287273	Window	5.5"	Complete
735340000	400:5	3.0	2.2	0.3 B0.2	4287273	Window	5.5"	No base
735340001	500:5	4.0	3.0	0.3 B0.5	4287273	Window	5.5"	No base
735340002	600:5	3.0	2.2	0.3 B0.5	4287273	Window	5.5"	No base
735340003	800:5	2.0	1.5	0.3 B0.5	4287273	Window	5.5"	No base
735340004	1000:5	2.0	1.5	0.3 B0.5	4287273	Window	5.5"	No base
735340005	1200:5	2.0	1.5	0.3 B0.9	4287273	Window	5.5"	No base
735340006	1500:5	3.0	2.2	0.3 B0.9	4287273	Window	5.5"	No base
735340007	2000:5	2.0	1.5	0.3 B1.8	4287273	Window	5.5"	No base
735340008	3000:5	1.5	1.2	0.3 B1.8	4287273	Window	5.5"	No base
735340009	4000:5	1.33	1.0	0.3 B1.8	4287273	Window	5.5"	No base
735340160	600/1200:5	3.0/2.0	2.2/1.5	0.3 B0.2/B0.9	4287273	Window	5.5"	No base
735340161	800/1600:5	3.0/2.0	2.2/1.5	0.3 B0.2/B1.8	4287273	Window	5.5"	No base
735340162	1000/2000:5	3.0/2.0	2.2/1.5	0.3 B0.5/B1.8	4287273	Window	5.5"	No base
735340163	1500/3000:5	2.0/1.5	1.5/1.2	0.3 B0.9/B1.8	4287273	Window	5.5"	No base
735340164	2000/4000:5	2.0/1.33	1.5/1.0	0.3 B1.8/B1.8	4287273	Window	5.5"	No base
735340020	400:5	3.0	2.2	0.3 B0.2	4287273	Window	5.5"	No base/no cover
735340021	500:5	4.0	3.0	0.3 B0.5	4287273	Window	5.5"	No base/no cover
735340022	600:5	3.0	2.2	0.3 B0.5	4287273	Window	5.5"	No base/no cover
735340023	800:5	2.0	1.5	0.3 B0.5	4287273	Window	5.5"	No base/no cover
735340024	1000:5	2.0	1.5	0.3 B0.5	4287273	Window	5.5"	No base/no cover
735340025	1200:5	2.0	1.5	0.3 B0.9	4287273	Window	5.5"	No base/no cover
735340026	1500:5	3.0	2.2	0.3 B0.9	4287273	Window	5.5"	No base/no cover
735340027	2000:5	2.0	1.5	0.3 B1.8	4287273	Window	5.5"	No base/no cover
735340028	3000:5	1.5	1.2	0.3 B1.8	4287273	Window	5.5"	No base/no cover
735340029	4000:5	1.33	1.0	0.3 B1.8	4287273	Window	5.5"	No base/no cover
735340180	600/1200:5	3.0/2.0	2.2/1.5	0.3 B0.2/B0.9	4287273	Window	5.5"	No base/no cover
735340181	800/1600:5	3.0/2.0	2.2/1.5	0.3 B0.2/B1.8	4287273	Window	5.5"	No base/no cover
735340182	1000/2000:5	3.0/2.0	2.2/1.5	0.3 B0.5/B1.8	4287273	Window	5.5"	No base/no cover
735340183	1500/3000:5	2.0/1.5	1.5/1.2	0.3 B0.9/B1.8	4287273	Window	5.5"	No base/no cover
735340184	2000/4000:5	2.0/1.33	1.5/1.0	0.3 B1.8/B1.8	4287273	Window	5.5"	No base/no cover
735340040	400:5	3.0	2.2	0.3 B0.2	4287567	Window plate	5.5"	Complete
735340041	500:5	4.0	3.0	0.3 B0.5	4287567	Window plate	5.5"	Complete
735340042	600:5	3.0	2.2	0.3 B0.5	4287567	Window plate	5.5"	Complete
735340043	800:5	2.0	1.5	0.3 B0.5	4287567	Window plate	5.5"	Complete
735340044	1000:5	2.0	1.5	0.3 B0.5	4287567	Window plate	5.5"	Complete
735340045	1200:5	2.0	1.5	0.3 B0.9	4287567	Window plate	5.5"	Complete
735340046	1500:5	3.0	2.2	0.3 B0.9	4287567	Window plate	5.5"	Complete
735340047	2000:5	2.0	1.5	0.3 B1.8	4287567	Window plate	5.5"	Complete
735340048	3000:5	1.5	1.2	0.3 B1.8	4287567	Window plate	5.5"	Complete
735340049	4000:5	1.33	1.0	0.3 B1.8	4287567	Window plate	5.5"	Complete
735340200	600/1200:5	3.0/2.0	2.2/1.5	0.3 B0.2/B0.9	4287567	Window plate	5.5"	Complete
735340201	800/1600:5	3.0/2.0	2.2/1.5	0.3 B0.2/B1.8	4287567	Window plate	5.5"	Complete
735340202	1000/2000:5	3.0/2.0	2.2/1.5	0.3 B0.5/B1.8	4287567	Window plate	5.5"	Complete
735340203	1500/3000:5	2.0/1.5	1.5/1.2	0.3 B0.9/B1.8	4287567	Window plate	5.5"	Complete
735340204	2000/4000:5	2.0/1.33	1.5/1.0	0.3 B1.8/B1.8	4287567	Window plate	5.5"	Complete

IRH-10

600 V CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Continuous Thermal Current Rating Factor @ 55°C	IEEE Metering Accuracy	Drawing number	Type	Window Size	Accessories
735340060	400:5	3.0	2.2	0.3 B0.2	4287567	Window plate	5.5″	No base
735340061	500:5	4.0	3.0	0.3 B0.5	4287567	Window plate	5.5″	No base
735340062	600:5	3.0	2.2	0.3 B0.5	4287567	Window plate	5.5″	No base
735340063	800:5	2.0	1.5	0.3 B0.5	4287567	Window plate	5.5″	No base
735340064	1000:5	2.0	1.5	0.3 B0.5	4287567	Window plate	5.5″	No base
735340065	1200:5	2.0	1.5	0.3 B0.9	4287567	Window plate	5.5″	No base
735340066	1500:5	3.0	2.2	0.3 B0.9	4287567	Window plate	5.5″	No base
735340067	2000:5	2.0	1.5	0.3 B1.8	4287567	Window plate	5.5″	No base
735340068	3000:5	1.5	1.2	0.3 B1.8	4287567	Window plate	5.5″	No base
735340069	4000:5	1.33	1.0	0.3 B1.8	4287567	Window plate	5.5″	No base
735340220	600/1200:5	3.0/2.0	2.2/1.5	0.3 B0.2/B0.9	4287567	Window plate	5.5″	No base
735340221	800/1600:5	3.0/2.0	2.2/1.5	0.3 B0.2/B1.8	4287567	Window plate	5.5″	No base
735340222	1000/2000:5	3.0/2.0	2.2/1.5	0.3 B0.5/B1.8	4287567	Window plate	5.5″	No base
735340223	1500/3000:5	2.0/1.5	1.5/1.2	0.3 B0.9/B1.8	4287567	Window plate	5.5″	No base
735340224	2000/4000:5	2.0/1.33	1.5/1.0	0.3 B1.8/B1.8	4287567	Window plate	5.5″	No base
735340080	400:5	3.0	2.2	0.3 B0.2	4287567	Window plate	5.5″	No base/no cover
735340081	500:5	4.0	3.0	0.3 B0.5	4287567	Window plate	5.5″	No base/no cover
735340082	600:5	3.0	2.2	0.3 B0.5	4287567	Window plate	5.5″	No base/no cover
735340083	800:5	2.0	1.5	0.3 B0.5	4287567	Window plate	5.5″	No base/no cover
735340084	1000:5	2.0	1.5	0.3 B0.5	4287567	Window plate	5.5″	No base/no cover
735340085	1200:5	2.0	1.5	0.3 B0.9	4287567	Window plate	5.5″	No base/no cover
735340086	1500:5	3.0	2.2	0.3 B0.9	4287567	Window plate	5.5″	No base/no cover
735340087	2000:5	2.0	1.5	0.3 B1.8	4287567	Window plate	5.5″	No base/no cover
735340088	3000:5	1.5	1.2	0.3 B1.8	4287567	Window plate	5.5″	No base/no cover
735340089	4000:5	1.33	1.0	0.3 B1.8	4287567	Window plate	5.5″	No base/no cover
735340228	600/1200:5	3.0/2.0	2.2/1.5	0.3 B0.2/B0.9	4287567	Window plate	5.5″	No base/no cover
735340241	800/1600:5	3.0/2.0	2.2/1.5	0.3 B0.2/B1.8	4287567	Window plate	5.5″	No base/no cover
735340242	1000/2000:5	3.0/2.0	2.2/1.5	0.3 B0.5/B1.8	4287567	Window plate	5.5″	No base/no cover
735340243	1500/3000:5	2.0/1.5	1.5/1.2	0.3 B0.9/B1.8	4287567	Window plate	5.5″	No base/no cover
735340244	2000/4000:5	2.0/1.33	1.5/1.0	0.3 B1.8/B1.8	4287567	Window plate	5.5″	No base/no cover
735340100	400:5	3.0	2.2	0.3 B0.2	4288844	Nema 4 Bar Type (1)	5.5″	Complete
735340101	500:5	4.0	3.0	0.3 B0.5	4288844	Nema 4 Bar Type (2)	5.5″	Complete
735340102	600:5	3.0	2.2	0.3 B0.5	4288844	Nema 4 Bar Type (2)	5.5″	Complete
735340103	800:5	2.0	1.5	0.3 B0.5	4288844	Nema 4 Bar Type (1)	5.5″	Complete
735340104	1000:5	2.0	1.5	0.3 B0.5	4288844	Nema 4 Bar Type (2)	5.5″	Complete
735340105	1200:5	2.0	1.5	0.3 B0.9	4288844	Nema 4 Bar Type (2)	5.5″	Complete
735340106	1500:5	3.0	2.2	0.3 B0.9	4288844	Nema 4 Bar Type (3)	5.5″	Complete
735340107	2000:5	2.0	1.5	0.3 B1.8	4288844	Nema 4 Bar Type (3)	5.5″	Complete
735340108	3000:5	1.5	1.2	0.3 B1.8	4288844	Nema 4 Bar Type (3)	5.5″	Complete
735340109	4000:5	1.33	1.0	0.3 B1.8	4288844	Nema 4 Bar Type (4)	5.5″	Complete
735340158	600/1200:5	3.0/2.0	2.2/1.5	0.3 B0.2/B0.9	4288844	Nema 4 Bar Type (2)	5.5″	Complete
735340261	800/1600:5	3.0/2.0	2.2/1.5	0.3 B0.2/B1.8	4288844	Nema 4 Bar Type (2)	5.5″	Complete
735340262	1000/2000:5	3.0/2.0	2.2/1.5	0.3 B0.5/B1.8	4288844	Nema 4 Bar Type (3)	5.5″	Complete
735340263	1500/3000:5	2.0/1.5	1.5/1.2	0.3 B0.9/B1.8	4288844	Nema 4 Bar Type (3)	5.5″	Complete
735340264	2000/4000:5	2.0/1.33	1.5/1.0	0.3 B1.8/B1.8	4288844	Nema 4 Bar Type (4)	5.5″	Complete
735340120	400:5	3.0	2.2	0.3 B0.2	4288844	Nema 4 Bar Type (1)	5.5″	No base
735340121	500:5	4.0	3.0	0.3 B0.5	4288844	Nema 4 Bar Type (2)	5.5″	No base
735340122	600:5	3,0	2,2	0.3 B0.5	4288844	Nema 4 Bar Type (2)	5.5″	No base
735340123	800:5	2,0	1,5	0.3 B0.5	4288844	Nema 4 Bar Type (1)	5.5″	No base
735340124	1000:5	2,0	1,5	0.3 B0.5	4288844	Nema 4 Bar Type (2)	5.5″	No base
735340125	1200:5	2,0	1,5	0.3 B0.9	4288844	Nema 4 Bar Type (2)	5.5″	No base
735340126	1500:5	3,0	2,2	0.3 B0.9	4288844	Nema 4 Bar Type (3)	5.5″	No base
735340127	2000:5	2,0	1,5	0.3 B1.8	4288844	Nema 4 Bar Type (3)	5.5″	No base
735340128	3000:5	1,5	1,2	0.3 B1.8	4288844	Nema 4 Bar Type (3)	5.5″	No base
735340129	4000:5	1,33	1,0	0.3 B1.8	4288844	Nema 4 Bar Type (4)	5.5″	No base
735340280	600/1200:5	3.0/2.0	2.2/1.5	0.3 B0.2/B0.9	4288844	Nema 4 Bar Type (2)	5.5″	No base
735340281	800/1600:5	3.0/2.0	2.2/1.5	0.3 B0.2/B1.8	4288844	Nema 4 Bar Type (2)	5.5″	No base
735340282	1000/2000:5	3.0/2.0	2.2/1.5	0.3 B0.5/B1.8	4288844	Nema 4 Bar Type (3)	5.5″	No base
735340283	1500/3000:5	2.0/1.5	1.5/1.2	0.3 B0.9/B1.8	4288844	Nema 4 Bar Type (3)	5.5″	No base
735340284	2000/4000:5	2.0/1.33	1.5/1.0	0.3 B1.8/B1.8	4288844	Nema 4 Bar Type (4)	5.5″	No base

IRH-10

600 V CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Continuous Thermal Current Rating Factor @ 55°C	IEEE Metering Accuracy	Drawing number	Type	Window Size	Accessories
735340140	400:5	3.0	2.2	0.3 B0.2	4288844	Nema 4 Bar Type (1)	5.5″	No base/no cover
735340141	500:5	4.0	3.0	0.3 B0.5	4288844	Nema 4 Bar Type (2)	5.5″	No base/no cover
735340142	600:5	3.0	2.2	0.3 B0.5	4288844	Nema 4 Bar Type (2)	5.5″	No base/no cover
735340143	800:5	2.0	1.5	0.3 B0.5	4288844	Nema 4 Bar Type (1)	5.5″	No base/no cover
735340144	1000:5	2.0	1.5	0.3 B0.5	4288844	Nema 4 Bar Type (2)	5.5″	No base/no cover
735340145	1200:5	2.0	1.5	0.3 B0.9	4288844	Nema 4 Bar Type (2)	5.5″	No base/no cover
735340146	1500:5	3.0	2.2	0.3 B0.9	4288844	Nema 4 Bar Type (3)	5.5″	No base/no cover
735340147	2000:5	2.0	1.5	0.3 B1.8	4288844	Nema 4 Bar Type (3)	5.5″	No base/no cover
735340148	3000:5	1.5	1.2	0.3 B1.8	4288844	Nema 4 Bar Type (3)	5.5″	No base/no cover
735340149	4000:5	1.33	1.0	0.3 B1.8	4288844	Nema 4 Bar Type (4)	5.5″	No base/no cover
735340303	600/1200:5	3.0/2.0	2.2/1.5	0.3 B0.2/B0.9	4288844	Nema 4 Bar Type (2)	5.5″	No base/no cover
735340304	800/1600:5	3.0/2.0	2.2/1.5	0.3 B0.2/B1.8	4288844	Nema 4 Bar Type (2)	5.5″	No base/no cover
735340305	1000/2000:5	3.0/2.0	2.2/1.5	0.3 B0.5/B1.8	4288844	Nema 4 Bar Type (3)	5.5″	No base/no cover
735340306	1500/3000:5	2.0/1.5	1.5/1.2	0.3 B0.9/B1.8	4288844	Nema 4 Bar Type (3)	5.5″	No base/no cover
735340307	2000/4000:5	2.0/1.33	1.5/1.0	0.3 B1.8/B1.8	4288844	Nema 4 Bar Type (4)	5.5″	No base/no cover
735340210	600:5	3.0	2.0	0.15 B0.2*	4287273	Window	5.5″	Complete
735340226	800:5	3.0	2.0	0.15 B0.5*	4287273	Window	5.5″	Complete
735340230	1000:5	2.5	1.8	0.15 B0.9*	4287273	Window	5.5″	Complete
735340240	1200:5	2.5	1.8	0.15 B0.9*	4287273	Window	5.5″	Complete
735340250	1500:5	2.5	1.8	0.15 B0.9*	4287273	Window	5.5″	Complete
735340266	2000:5	2.5	1.8	0.15 B0.9*	4287273	Window	5.5″	Complete
735340270	3000:5	1.5	1.0	0.15 B0.9*	4287273	Window	5.5″	Complete

Additional ratings available upon request.

* Accuracy range: 1% to RF HAER

Notes: .....

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IRH-12

600 V CURRENT TRANSFORMER

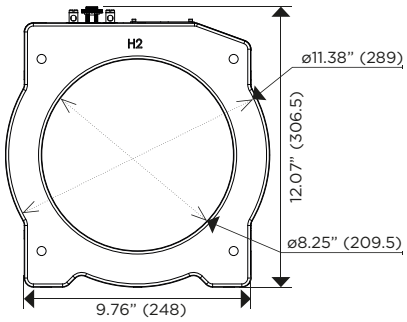
INDOOR-
OUTDOOR
60 Hertz

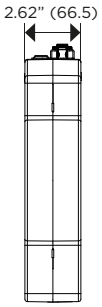
ARTECHE IRH series are dry type indoor/outdoor service current transformers. The core is encapsulated with epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

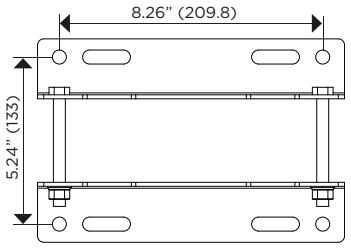
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

UL Recognized Component File No.:E252140

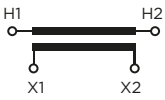
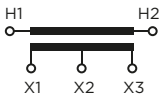
Mechanical characteristics		
Insulation Material	Color	Weight (lbs.)
Resin	Blue	19

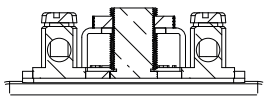






Drawing number: 4287275

	ONE SECONDARY	ONE SECONDARY with tap
MARKING (Single Primary Ratio)		

	SECONDARY TERMINALS AND SHORT CIRCUIT DEVICE
CONNECTIONS	 Secondary terminals. Type: Quick Connector Material: Brass Diameter: 1/4"

Approximate dimensions in inches (mm).

IRH-12

600 V CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Continuous Thermal Current Rating Factor @ 55°C	IEEE Metering Accuracy	Drawing number	Type	Window Size	Accessories	Accuracy metering explanation
735361400	2000:5	2.0	1.5	0.3 B1.8	4287275	Window	8.25"	Complete	
735361600	3000:5	2.0	1.5	0.3 B1.8	4287275	Window	8.25"	Complete	
735361800	4000:5	1.5	1.2	0.3 B1.8	4287275	Window	8.25"	Complete	
735361100	5000:5	1.33	1.0	0.3 B1.8	4287275	Window	8.25"	Complete	
735361120	6000:5	1.0	0.75	0.3 B1.8	4287275	Window	8.25"	Complete	
735362200	1000/2000:5	3.0/2.0	2.2/1.5	0.3 B0.5/B1.8	4287275	Window	8.25"	Complete	
735362300	1500/3000:5	3.0/2.0	2.2/1.5	0.3 B0.5/B1.8	4287275	Window	8.25"	Complete	
735362400	2000/4000:5	2.0/1.5	1.5/1.2	0.3 B0.9/B1.8	4287275	Window	8.25"	Complete	
735369991	2500/5000:5	2.0/1.33	1.5/1.0	0.3 B1.8/B1.8	4287275	Window	8.25"	Complete	
735369992	3000/6000:5	1.33/1.0	1.0/0.75	0.3 B1.8/B1.8	4287275	Window	8.25"	Complete	
735360000	2000:5	2.0	1.5	0.3 B1.8	4287275	Window	8.25"	No base	
735360001	3000:5	2.0	1.5	0.3 B1.8	4287275	Window	8.25"	No base	
735360002	4000:5	1.5	1.2	0.3 B1.8	4287275	Window	8.25"	No base	
735360003	5000:5	1.33	1.0	0.3 B1.8	4287275	Window	8.25"	No base	
735360004	6000:5	1.0	0.75	0.3 B1.8	4287275	Window	8.25"	No base	
735360030	1000/2000:5	3.0/2.0	2.2/1.5	0.3 B0.5/B1.8	4287275	Window	8.25"	No base	
735360031	1500/3000:5	3.0/2.0	2.2/1.5	0.3 B0.5/B1.8	4287275	Window	8.25"	No base	
735360032	2000/4000:5	2.0/1.5	1.5/1.2	0.3 B0.9/B1.8	4287275	Window	8.25"	No base	
735360033	2500/5000:5	2.0/1.33	1.5/1.0	0.3 B1.8/B1.8	4287275	Window	8.25"	No base	
735360034	3000/6000:5	1.33/1.0	1.0/0.75	0.3 B1.8/B1.8	4287275	Window	8.25"	No base	
735360015	2000:5	2.0	1.5	0.3 B1.8	4287275	Window	8.25"	No base/no cover	
735360016	3000:5	2.0	1.5	0.3 B1.8	4287275	Window	8.25"	No base/no cover	
735360017	4000:5	1.5	1.2	0.3 B1.8	4287275	Window	8.25"	No base/no cover	
735360018	5000:5	1.33	1.0	0.3 B1.8	4287275	Window	8.25"	No base/no cover	
735360019	6000:5	1.0	0.75	0.3 B1.8	4287275	Window	8.25"	No base/no cover	
735360045	1000/2000:5	3.0/2.0	2.2/1.5	0.3 B0.5/B1.8	4287275	Window	8.25"	No base/no cover	
735360046	1500/3000:5	3.0/2.0	2.2/1.5	0.3 B0.5/B1.8	4287275	Window	8.25"	No base/no cover	
735360047	2000/4000:5	2.0/1.5	1.5/1.2	0.3 B0.9/B1.8	4287275	Window	8.25"	No base/no cover	
735360048	2500/5000:5	2.0/1.33	1.5/1.0	0.3 B1.8/B1.8	4287275	Window	8.25"	No base/no cover	
735360049	3000/6000:5	1.33/1.0	1.0/0.75	0.3 B1.8/B1.8	4287275	Window	8.25"	No base/no cover	
735360210	2000:5	2.5	1.8	0.15 B0.9*	4287275	Window	8.25"	Complete	* Accuracy range: 1% to RF

Additional ratings available upon request.

Notes: .....

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IFD-1

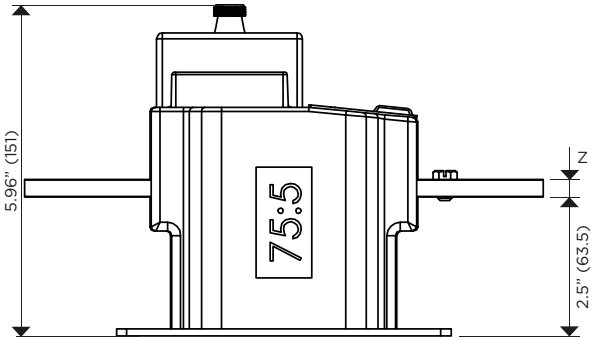
600 V CURRENT TRANSFORMER

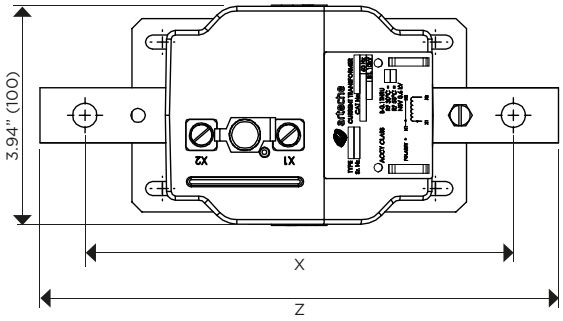
ARTECHE IFD series are dry type indoor service current transformers. The core is encapsulated with epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

INDOOR
60 Hertz

Mechanical characteristics		
Insulation Material	Color	Weight (lbs.)
Resin	Blue	Primary Bar Type: 7





Drawing number: 4288334

PRIMARY BAR DIMENSIONS					
AMPS	W	X	Y	Z	MARK
75-100	1	7-3/4	9-3/8	5/16	A
150-250	1	7-3/4	9-3/8	5/16	B
300-400	1	7-3/4	9-3/8	5/16	C
500-800	2	10-1/2	11-1/2	3/8	D
1000-1200	2	10-1/2	11-1/2	29/64	E

Approximate dimensions in inches (mm).

IFD-1

600 V CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Continuous Thermal Current Rating Factor @ 55°C	IEEE Metering Accuracy
735180001	75:5	1.5	1.2	0.3 B0.9
735180002	100:5	1.5	1.2	0.3 B0.9
735180003	150:5	1.5	1.2	0.3 B0.9
735180004	200:5	1.5	1.2	0.3 B0.9
735180005	250:5	1.5	1.2	0.3 B0.9
735180006	300:5	1.5	1.2	0.3 B0.9
735180007	400:5	1.5	1.2	0.3 B0.9
735180008	500:5	1.5	1.2	0.3 B0.9
735180009	600:5	1.5	1.2	0.3 B0.9
735180010	800:5	1.5	1.2	0.3 B0.9
735180011	1000:5	1.5	1.2	0.3 B0.9
735180012	1200:5	1.5	1.2	0.3 B0.9

Additional ratings available upon request.

Notes: .....

IFD-3

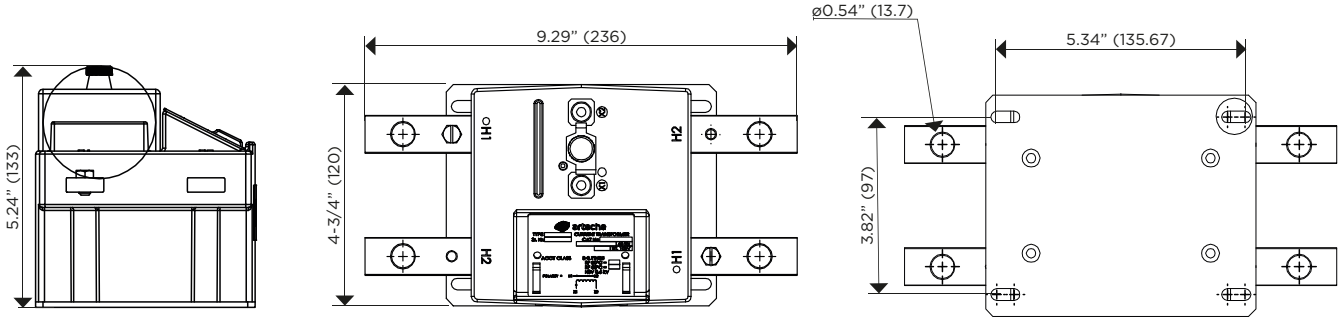
600 V CURRENT TRANSFORMER

ARTECHE IFD series are dry type indoor service current transformers. The core is encapsulated with epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

INDOOR
60 Hertz

Mechanical characteristics		
Insulation Material	Color	Weight (lbs.)
Resin	Blue	Primary Bar Type: 8.3



Drawing number: 4288335

Approximate dimensions in inches (mm).

IFD-3

600 V CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Continuous Thermal Current Rating Factor @ 55°C	IEEE Metering Accuracy
735200001	200:5	1.5	1.2	0.3 B0.5
735200002	250:5	1.5	1.2	0.3 B0.5
735200003	300:5	1.5	1.2	0.3 B0.5
735200004	400:5	1.5	1.2	0.3 B0.5

Additional ratings available upon request.

Notes:

ICP-3

600 V CURRENT TRANSFORMER

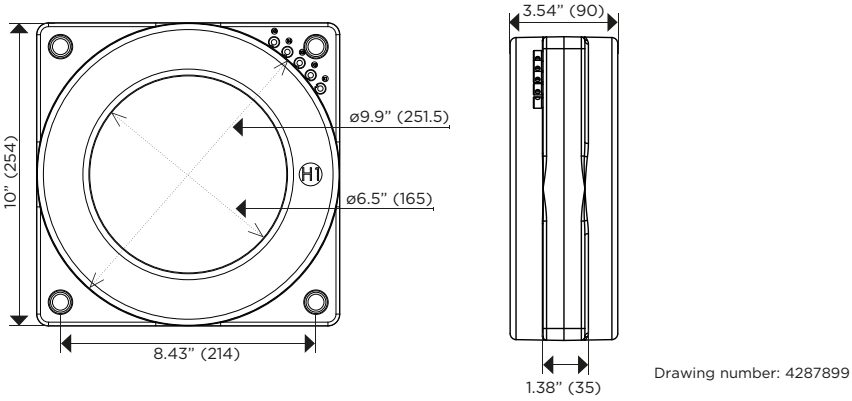
ARTECHE ICP series are dry type indoor service current transformers. The core is encapsulated with an impact-resistant polycarbonate which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses.

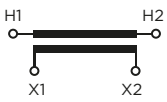
The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

INDOOR
60 Hertz

Mechanical characteristics		
Insulation Material	Color	Weight (lbs.)
Polycarbonate	Black	26



Drawing number: 4287899

	ONE SECONDARY	ONE SECONDARY MULTIRATIO
MARKING (Single Primary Ratio)		

Approximate dimensions in inches (mm).

ICP-3

600 V CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Continuous Thermal Current Rating Factor @ 55°C	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)		Type
								Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})	
735131015	75:5	2.0	1.5	2.4B0.2	C10	0.6	10	4	2.5	Window (6.5")
735131020	100:5	2.0	1.5	1.2B0.1/2.4B0.2	C10	0.6	10	4	2.5	Window (6.5")
735131030	150:5	2.0	1.5	0.6B0.1/1.2B0.2/2.4B0.5	C20	0.6	10	4	2.5	Window (6.5")
735131040	200:5	2.0	1.5	0.6B0.2/1.2B0.5	C20	0.6	10	4	2.5	Window (6.5")
735131050	250:5	2.0	1.5	0.6B0.2/1.2B0.5/2.4B0.9	C20	0.6	10	4	2.5	Window (6.5")
735131060	300:5	2.0	1.5	0.3B0.1/0.6B0.2/1.2B0.9/2.4B1.8	C20	0.6	10	4	2.5	Window (6.5")
735131080	400:5	2.0	1.5	0.3B0.2/0.6B0.5/1.2B1.8	C50	0.6	10	4	2.5	Window (6.5")
735131100	500:5	2.0	1.5	0.3B0.5/0.6B0.9/1.2B1.8	C50	0.6	10	4	2.5	Window (6.5")
735131120	600:5	2.0	1.5	0.3B0.5/0.6B1.8	C100	0.6	10	4	2.5	Window (6.5")
735131160	800:5	2.0	1.5	0.3B0.9/0.6B1.8	C100	0.6	10	4	2.5	Window (6.5")
735131200	1000:5	2.0	1.5	0.3B1.8	C100	0.6	10	4	2.5	Window (6.5")
735131240	1200:5	2.0	1.5	0.3B1.8	C200	0.6	10	4	2.5	Window (6.5")
735131300	1500:5	2.0	1.5	0.3B1.8	C200	0.6	10	4	2.5	Window (6.5")
735131400	2000:5	2.0	1.5	0.3B1.8	C200	0.6	10	4	2.5	Window (6.5")
735131500	2500:5	2.0	1.5	0.3B1.8	C200	0.6	10	4	2.5	Window (6.5")
735131600	3000:5	2.0	1.5	0.3B1.8	C200	0.6	10	4	2.5	Window (6.5")
735131800	4000:5	1.5	1.2	0.3B1.8	C200	0.6	10	4	2.5	Window (6.5")
735132120	600:5 MR	2.0	1.5	0.3B0.5/0.6B1.8	C100	0.6	10	4	2.5	Window (6.5")
735132240	1200:5 MR	2.0	1.5	0.3B1.8	C200	0.6	10	4	2.5	Window (6.5")
735132400	2000:5 MR	2.0	1.5	0.3B1.8	C200	0.6	10	4	2.5	Window (6.5")
735132600	3000:5 MR	2.0	1.5	0.3B1.8	C200	0.6	10	4	2.5	Window (6.5")
735132800	4000:5 MR	1.5	1.2	0.3B1.8	C200	0.6	10	4	2.5	Window (6.5")

Additional ratings available upon request.

Notes: .....

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ICP-5

600 V CURRENT TRANSFORMER

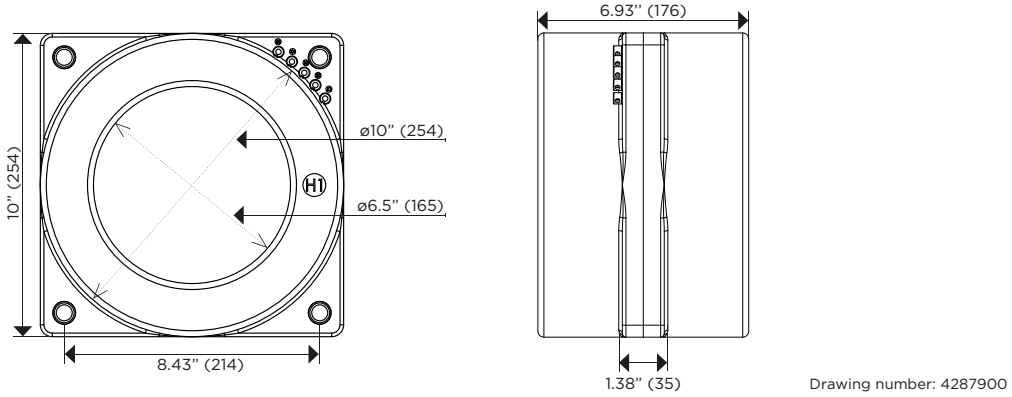
INDOOR
60 Hertz

ARTECHE ICP series are dry type indoor service current transformers. The core is encapsulated with an impact-resistant polycarbonate which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

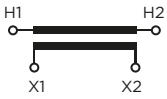
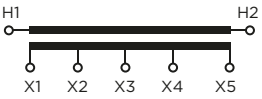
The core is built with high permeability grain oriented silicon steel laminations for low losses.

The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Mechanical characteristics		
Insulation Material	Color	Weight (lbs.)
Polycarbonate	Black	54.8



Drawing number: 4287900

MARKING (Single Primary Ratio)	ONE SECONDARY	ONE SECONDARY MULTIRATIO
		

Approximate dimensions in inches (mm).

ICP-5

600 V CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Continuous Thermal Current Rating Factor @ 55°C	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)		Type
								Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})	
735151010	50:5	2.0	1.5	1.2B0.1/2.4B0.2	C10	0.6	10	4	2.5	Window (6.5")
735151015	75:5	2.0	1.5	1.2B0.2/2.4B0.5	C20	0.6	10	4	2.5	Window (6.5")
735151020	100:5	2.0	1.5	0.6B0.1/1.2B0.2/2.4B0.5	C20	0.6	10	4	2.5	Window (6.5")
735151030	150:5	2.0	1.5	0.6B0.2/1.2B0.5/2.4B0.9	C50	0.6	10	4	2.5	Window (6.5")
735151040	200:5	2.0	1.5	0.3B0.2/0.6B0.5/1.2B0.9/2.4B1.8	C50	0.6	10	4	2.5	Window (6.5")
735151050	250:5	2.0	1.5	0.3B0.2/0.6B0.5/1.2B0.9/2.4B1.8	C50	0.6	10	4	2.5	Window (6.5")
735151060	300:5	2.0	1.5	0.3B0.5/0.6B0.9/1.2B1.8	C100	0.6	10	4	2.5	Window (6.5")
735151080	400:5	2.0	1.5	0.3B0.5/0.6B1.8	C100	0.6	10	4	2.5	Window (6.5")
735151100	500:5	2.0	1.5	0.3B0.9/0.6B1.8	C100	0.6	10	4	2.5	Window (6.5")
735151120	600:5	2.0	1.5	0.3B0.9/0.6B1.8	C200	0.6	10	4	2.5	Window (6.5")
735151160	800:5	2.0	1.5	0.3B1.8	C200	0.6	10	4	2.5	Window (6.5")
735151200	1000:5	2.0	1.5	0.3B1.8	C200	0.6	10	4	2.5	Window (6.5")
735151240	1200:5	2.0	1.5	0.3B1.8	C400	0.6	10	4	2.5	Window (6.5")
735151300	1500:5	2.0	1.5	0.3B1.8	C400	0.6	10	4	2.5	Window (6.5")
735151400	2000:5	2.0	1.5	0.3B1.8	C400	0.6	10	4	2.5	Window (6.5")
735151500	2500:5	2.0	1.5	0.3B1.8	C400	0.6	10	4	2.5	Window (6.5")
735151600	3000:5	2.0	1.5	0.3B1.8	C400	0.6	10	4	2.5	Window (6.5")
735151800	4000:5	1.5	1.2	0.3B1.8	C400	0.6	10	4	2.5	Window (6.5")
735159991	5000:5	1.2	1	0.3B1.8	C400	0.6	10	4	2.5	Window (6.5")
735159992	6000:5	1.0	0.75	0.3B1.8	C400	0.6	10	4	2.5	Window (6.5")
735152120	600:5 MR	2.0	1.5	0.3B0.9/0.6B1.8	C200	0.6	10	4	2.5	Window (6.5")
735152240	1200:5 MR	2.0	1.5	0.3B1.8	C400	0.6	10	4	2.5	Window (6.5")
735152400	2000:5 MR	2.0	1.5	0.3B1.8	C400	0.6	10	4	2.5	Window (6.5")
735152600	3000:5 MR	2.0	1.5	0.3B1.8	C400	0.6	10	4	2.5	Window (6.5")
735152800	4000:5 MR	1.5	1.2	0.3B1.8	C400	0.6	10	4	2.5	Window (6.5")
735159993	5000:5 MR	1.2	1	0.3B1.8	C400	0.6	10	4	2.5	Window (6.5")
735159994	6000:5 MR	1.0	0.75	0.3B1.8	C400	0.6	10	4	2.5	Window (6.5")

Additional ratings available upon request.

Notes: .....

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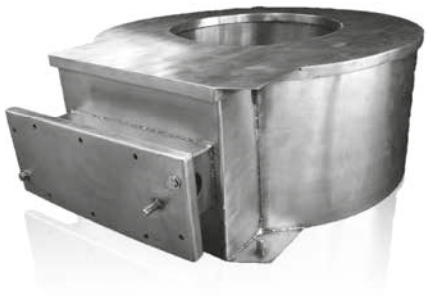
OVER BUSHING CURRENT TRANSFORMER

600 V CURRENT TRANSFORMER



The ARTECHE Over Bushing CT series are 600 V rated units designed to fit over a variety of specified bushing sizes. Primary current ratios are available from 200:5 thru 5000:5 at 60 Hz with a Rating Factor of up to 4.0.

This Slip-Over type CT will operate with high accuracy for metering or relay applications.

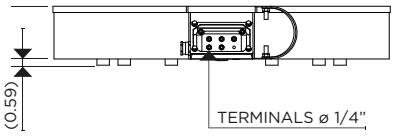
OUTDOOR
60 Hertz
Single, Dual and Multi Ratios, Window Type, Metering/Relaying

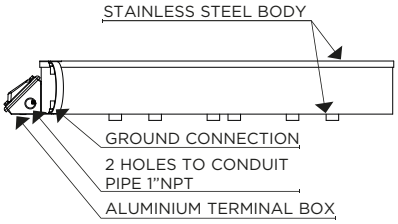
Mechanical characteristics

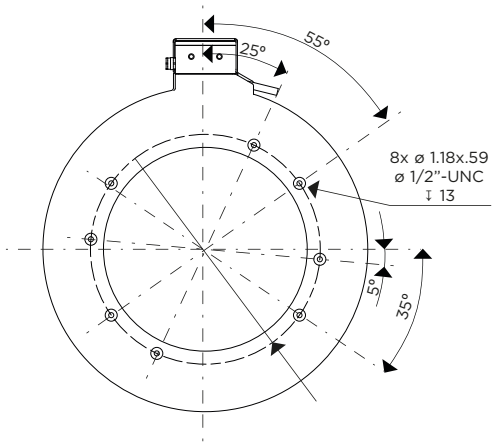
The core and coil assembly is wound and tape wrapped and is available in window sizes from 2.5 to 45 inches. The secondary leads are typically #10 AWG or #12 AWG. The bushing insulation provides the dielectric protection for the CT.

A metal housing covers the whole Current Transformer.

The core of the CT is constructed from high permeability grain oriented silicon steel laminations which provide low core losses. The windings are constructed with copper wire and copper plate double isolation. Concentric distribution of the CT coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses under adverse operating conditions.







OVER BUSHING CURRENT TRANSFORMER

600 V CURRENT TRANSFORMER

Accuracy performance

The ARTECHE Bushing CT provides 0.3 metering class accuracy with burdens from B0.1 to B1.8 and up to class C800 for relay applications. The transformer is accurate through its Rating Factor, and can be used continuously to this level.

Testing

The ARTECHE Bushing CT is individually tested per the IEEE C57.13 standard, including dielectric tests, accuracy and polarity.

Mounting

The ARTECHE Bushing CT is designed to be externally mounted around the bushings of power transformers, circuit breakers, underground potheads or in switchgear.

Options

Through careful calculation, steel selection and testing, existing current transformer characteristics can be matched with the ARTECHE Bushing CT. Existing characteristic curve would be required. Contact factory for other needs.

How to order

When ordering an ARTECHE Over Bushing CT. include the following information:

1. Minimum inside diameter (ID) ___ in [mm]
2. Maximum outside diameter (OD) ___ in [mm]
3. Maximum allowable height (HT) ___ in [mm]
4. Current ratio and taps, if any ___ (:5A or :1A | SR, DR, MR)
5. Accuracy and burden requirements, for example.
   - Metering - ___ (0.3 B0.1 thru B1.8)
   - Relaying - ___ (C-100, C-200, C-400, or C-800 or other)
   - If IEC ratings, list class and burden ___ (e.g.. class 0.2-20 VA, 5P20-40 VA)
6. Continuous Rating Factor ___ (standard is RF=2.0)
7. Frequency ___ (standard is 60 Hz)
8. Lead length & type ___. size - ___(standard is #10 AWG TW)

NOTE – Due to the many variations of mounting. Arteche does not supply mounting hardware.
Units are custom manufactured to customer specifications. Contact factory to discuss other options.

Notes: .....

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BUSHING CURRENT TRANSFORMER

600 V CURRENT TRANSFORMER

INDOOR
60 Hertz
Single, Dual and Multi Ratios,
Window Type,
Metering/Relaying

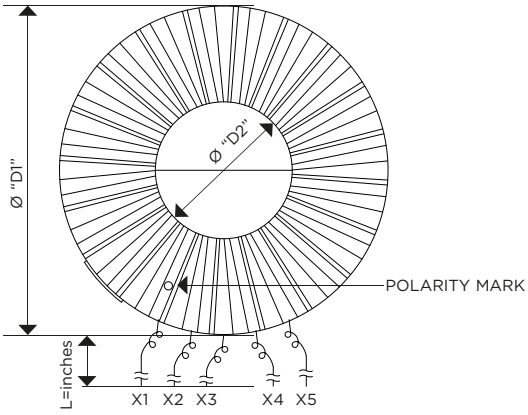
ARTECHE Bushing CT series are designed to fit over a variety of specified bushing sizes. Primary current ratios are available from 200:5 thru 5000:5 at 60 Hz with a Rating Factor up to 4.0. This tape-wound CT will operate for metering or relaying applications.

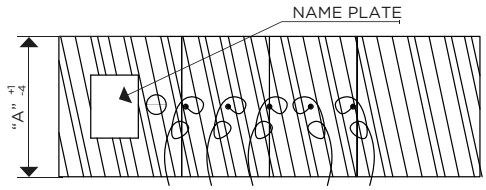
Mechanical characteristics

The core and coil assembly is wound and tape wrapped and is available in window sizes from 2.5 to 45 inches.

The secondary leads are typically #10 AWG or #12 AWG. The bushing insulation provides the dielectric protection for the CT. Optional TEFZEL insulation for the CT is also available.

The core of the CT is constructed from high permeability grain oriented silicon steel laminations which provide low core losses. The windings are constructed with copper wire and copper plate double insulated. All secondary windings are fully distributed around the core, which provides low leakage reactance on each ratio, achieving greater accuracy and higher capacity to withstand mechanical stresses under adverse operating conditions.



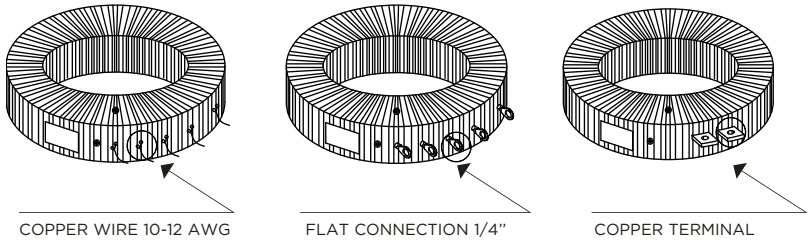


Ø "D1"	Ø "D2"	"A"	"L"=inches	WEIGHT lbs.

Specs and dimensions available upon request.

Drawing number: 4285816

TYPE OF CONNECTIONS (Secondary terminal)



BUSHING CURRENT TRANSFORMER

600 V CURRENT TRANSFORMER

Accuracy performance

The ARTECHE Bushing CT provides 0.3 metering class accuracy with burdens from B0.1 to B1.8 and class C-800 for relaying applications. The transformer is accurate through its Rating Factor for continuous operation.

Testing

The Arteche Bushing CT is individually tested and certified to IEEE C57.13 or CSA/IEC 61869.

Mounting

The ARTECHE Bushing CT is designed to be internally mounted around the bushings of power transformers, circuit breakers and switchgear.

Features and quality

- Customized solutions can be developed to satisfy specifical customer needs.
- Consistent accuracy during the transformer's entire life cycle, providing maximum reliability.
- ISO 9001:2008 quality system certificate.

How to order

When ordering an ARTECHE Bushing CT. include the following information:

1. Minimum inside diameter (D2)	___ in
2. Maximum outside diameter (D1)	___ in
3. Maximum allowable height (A)	___ in
4. Current ratio and taps, if any	___ (:5A or :1A | Single Ratio, Double Ratio or Multi Ratio)
5. Accuracy and burden requirements, for example.	
Metering -	___ (0.3 B0.1 thru B1.8 or other)
Relaying -	___ (C-100, C-200, C-400, or C-800 or other)
6. Continuous Rating Factor	___ (standard is RF=2.0)
7. Frequency	___ (standard is 60 Hz)
8. Lead length & type	___. size - ___(standard is #10 AWG)
9. Used in or above oil	___ (Yes/No). or in dry surroundings - ___ (Yes/No)

NOTE – Due to the many variations of mounting. Arteche does not supply mounting hardware.
Please. don't hesitate to contact us to discuss other options.

Notes: .....

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URC-3

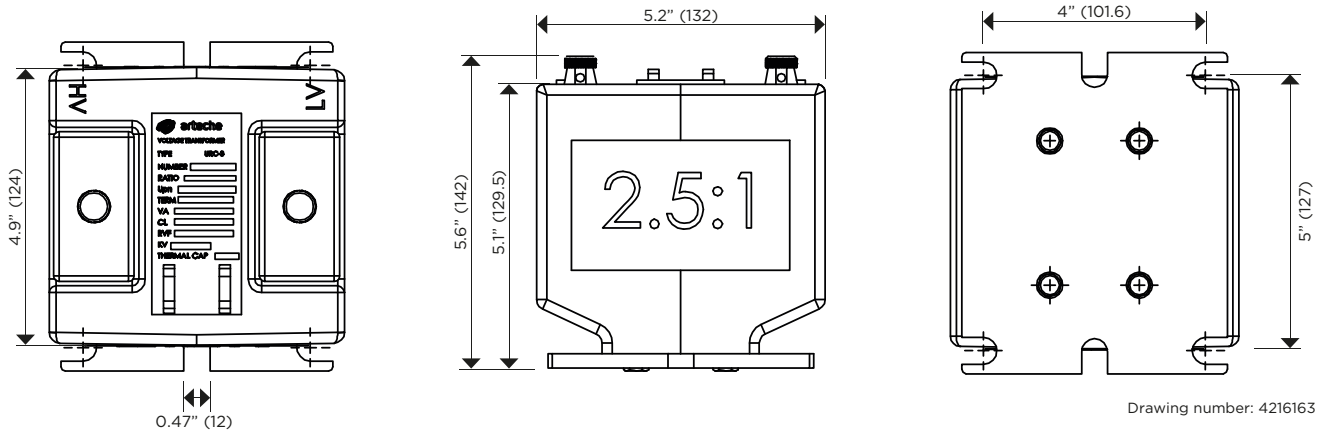
600 V VOLTAGE TRANSFORMER

INDOOR/OUTDOOR
60 Hertz

ARTECHE URC series are dry type indoor/outdoor service voltage transformers. The core is encapsulated with epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

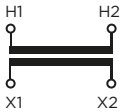
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Blue	15.43



Drawing number: 4216163

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

URC-3

600 V VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
755500106	1.061:1	115/200Y	108.3	0.3 W. 0.6 X	-	-	300	0.6	10	4	2.5
755500001	1:1	120/208Y	120	0.6 W	-	-	300	0.6	10	4	2.5
755500002	2:1	240/416Y	120	0.3 W. 0.6 X	-	-	300	0.6	10	4	2.5
755500023	2.3:1	276/478Y	120	0.3 W. 0.6 X	-	-	300	0.6	10	4	2.5
755500024	2.4:1	288/500Y	120	0.3 W. 0.6 X	-	-	300	0.6	10	4	2.5
755500025	2.5:1	300/520Y	120	0.3 W. 0.6 X	-	-	300	0.6	10	4	2.5
755500003	3:1	360/480Y	120	0.3 W. 0.6 X	-	-	300	0.6	10	4	2.5
755500333	3.33:1	400/400Y	120	0.3 W. 0.6 X	-	-	300	0.6	10	4	2.5
755500004	4:1	480/480Y	120	0.3 W. 0.6 X	-	-	300	0.6	10	4	2.5
755500020	2:1	480/480Y	240	0.3@12.5VA	-	-	300	0.6	10	4	2.5
755500416	4.167:1	500/500Y	120	0.3 W. 0.6 X	-	-	300	0.6	10	4	2.5
755500005	5:1	600/600Y	120	0.3 W. 0.6 X	-	-	300	0.6	10	4	2.5
755500250	2.5:1	600/600Y	240	0.3 W. 0.6 X	-	-	300	0.6	10	4	2.5

Notes: .....

URC-5

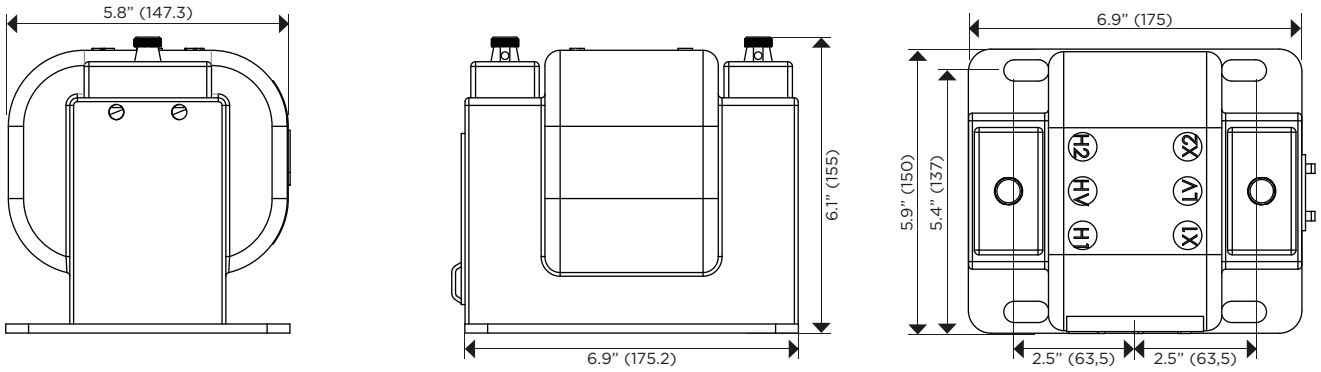
600 V VOLTAGE TRANSFORMER

ARTECHE URC series are dry type indoor/outdoor service voltage transformers. The core is encapsulated with epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

INDOOR/OUTDOOR
60 Hertz

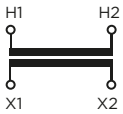
Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Blue	15.6



Drawing number: 4287986

MARKING (Single Primary Ratio)

ONE SECONDARY



Approximate dimensions in inches (mm).

URC-5

600 V VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
755510002	2:1	240/416Y	120	0.3 Y	-	-	500	0.6	10	4	2.5
755510024	2.4:1	288/500Y	120	0.3 Y	-	-	500	0.6	10	4	2.5
755510025	2.5:1	300/520Y	120	0.3 Y	-	-	500	0.6	10	4	2.5
755510003	3:1	360/480Y	120	0.3 Y	-	-	500	0.6	10	4	2.5
755510004	4:1	480/480Y	120	0.3 Y	-	-	500	0.6	10	4	2.5
755510005	5:1	600/600Y	120	0.3 Y	-	-	500	0.6	10	4	2.5
755510001	1:1	120/208Y	120	0.3 Y	-	-	500	0.6	10	4	2.5

Notes: .....

arteche

5 kV – 34.5 kV INDOOR INSTRUMENT TRANSFORMERS

UCE-7

5 kV VOLTAGE TRANSFORMER

Unfused

Fused

INDOOR
60 Hertz

ARTECHE UC/UX/VC series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

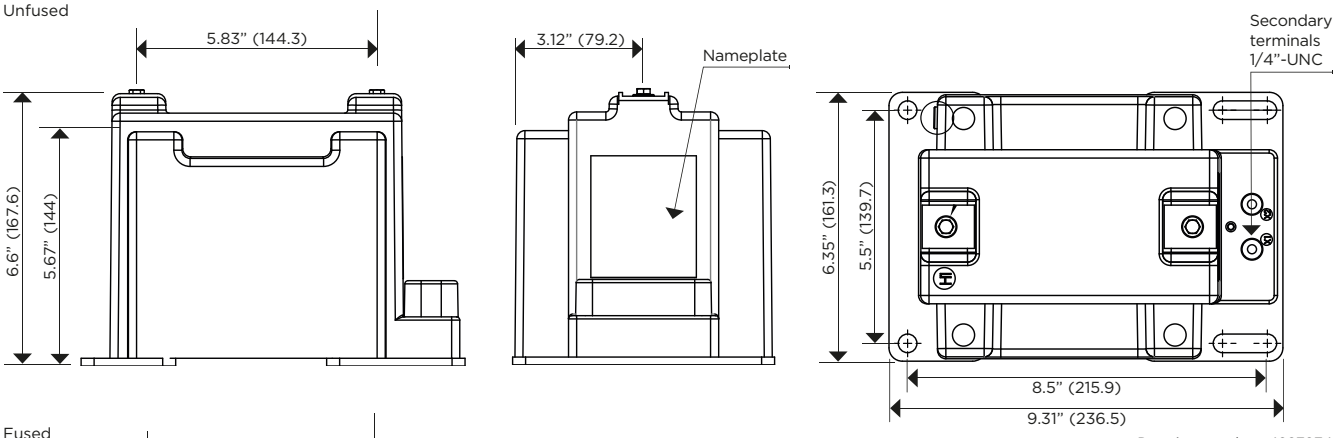
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

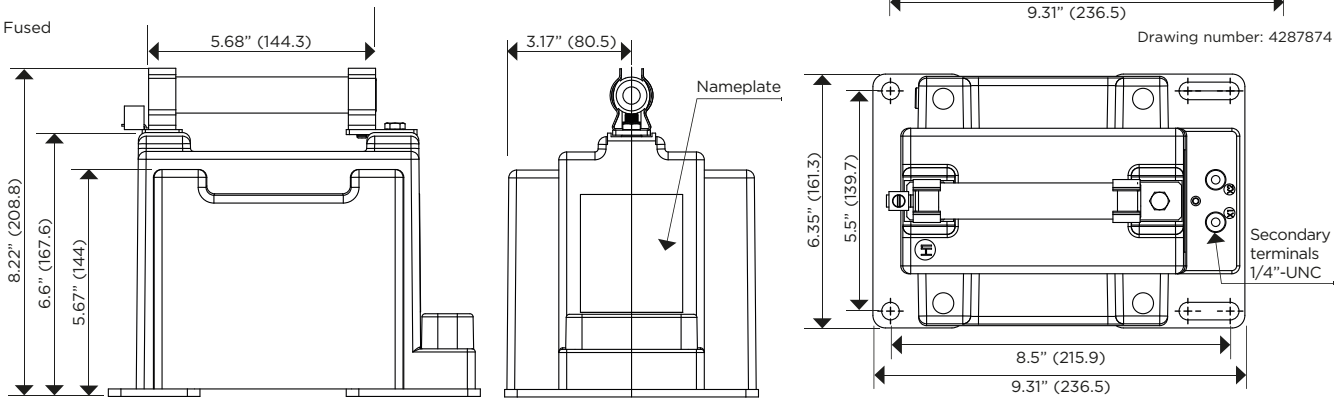
Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	32

Unfused



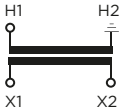
Drawing number: 4287874

Fused



Drawing number: 4286786

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

UCE-7

5 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Switchgear style (no fuse)											
753060020	20:1	2400/4160GY	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5
753060035	35:1	4200/4200GY	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5
753060040	40:1	4800/4800GY	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5
Fuse clips only (no fuse)											
753061020	20:1	2400/4160GY	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5
753061035	35:1	4200/4200GY	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5
753061040	40:1	4800/4800GY	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5
Fuse clips and fuse											
753062020	20:1	2400/4160GY	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5
753062035	35:1	4200/4200GY	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5
753062040	40:1	4800/4800GY	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5

All units can be supplied either switchgear style, fuse clips only or fuses and clips. Please contact your commercial representant for further information. Additional ratings available upon request.

Notes: .....

VCE-7

5 kV VOLTAGE TRANSFORMER

Unfused

Fused

INDOOR
60 Hertz

UL Recognized Component File No.:E252140

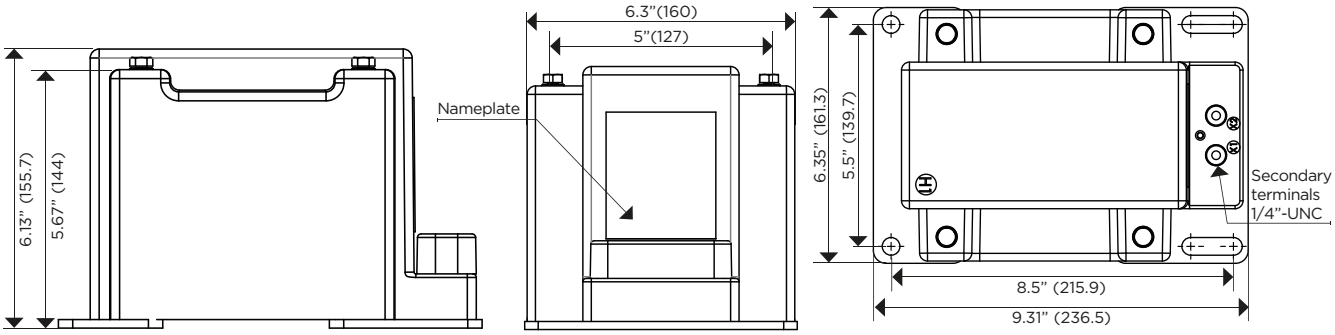
ARTECHE UC/UX/VC series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

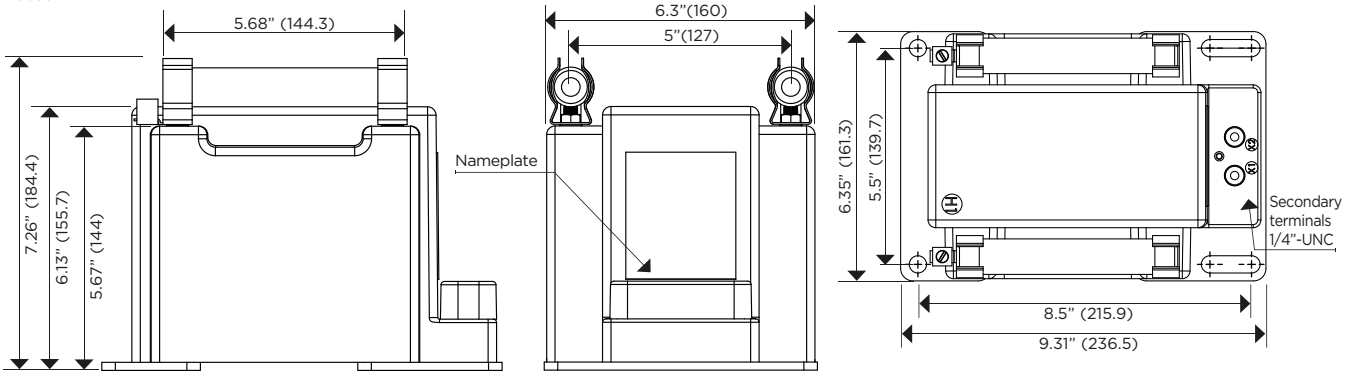
Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	32

Unfused



Drawing number: 4287876

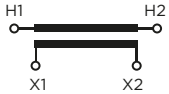
Fused



Drawing number: 4286786

MARKING (Single Primary Ratio)

ONE SECONDARY



Approximate dimensions in inches (mm).

VCE-7

5 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Switchgear style (no fuse)											
753030020	20:1	2400/4160Y	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5
753030035	35:1	4200/4200Y	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5
753030040	40:1	4800/4800Y	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5
Fuse clips only (no fuse)											
753031020	20:1	2400/4160Y	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5
753031035	35:1	4200/4200Y	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5
753031040	40:1	4800/4800Y	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5
Fuse clips and fuse											
753032020	20:1	2400/4160Y	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5
753032035	35:1	4200/4200Y	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5
753032040	40:1	4800/4800Y	120	0.3 W,X,M,Y/1.2Z	1.1	1.25	750	5	60	19	2.5

All units can be supplied either switchgear style, fuse clips only or fuses and clips. Please contact your commercial representant for further information.
Additional ratings available upon request.

Notes: .....

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UXI-12

8.7 kV VOLTAGE TRANSFORMER

INDOOR
60 Hertz

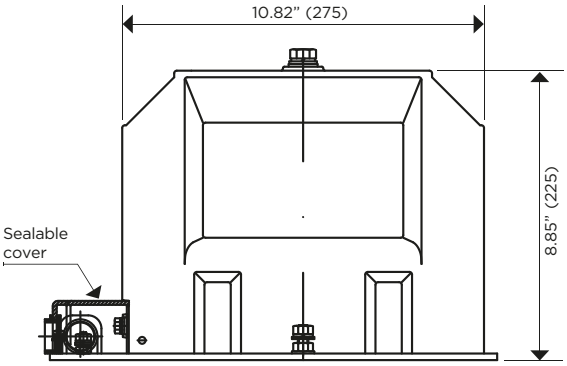
ARTECHE UC/UX/VC series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

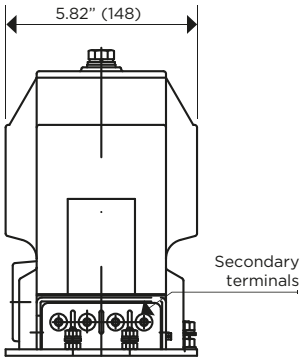
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

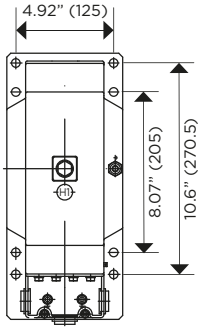
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	60

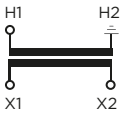






Drawing number: 4286155

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

UXI-12

8.7 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
753221020	20:1	2400/4160GY	120	0.6 W,X,M,Y	1.1	1.5	450	8.7	75	26	2.5
753221035	35:1	4200/7200GY	120	0.6 W,X	1.1	1.5	450	8.7	75	26	2.5
753221040	40:1	4800/8320GY	120	0.6 W,X	1.1	1.5	450	8.7	75	26	2.5
753221060	60:1	7200/12470GY	120	0.6 W,X	1.1	1.5	450	8.7	75	26	2.5

Additional ratings available upon request.

Notes: .....

UCE-17

15 kV VOLTAGE TRANSFORMER

INDOOR
60 Hertz

ARTECHE UC/UX/VC series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

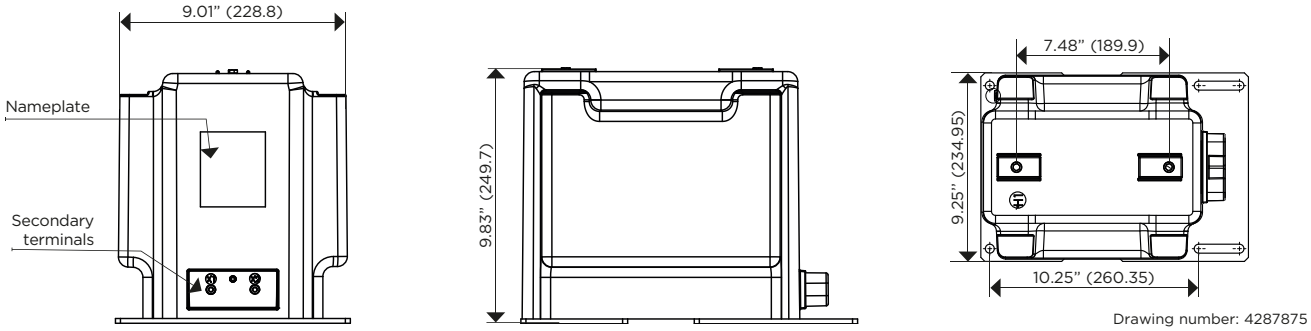
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

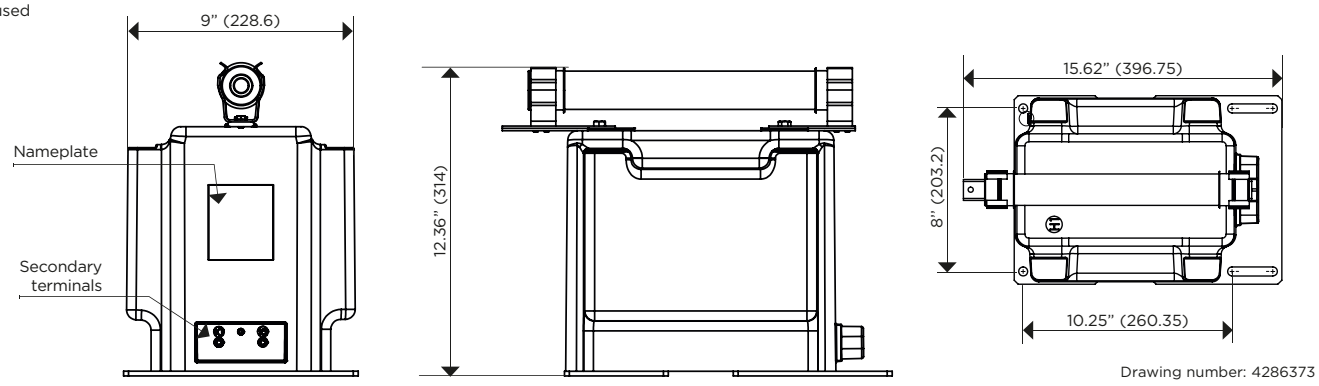
Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	85

Unfused



Drawing number: 4287875

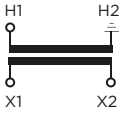
Fused



Drawing number: 4286373

MARKING (Single Primary Ratio)

ONE SECONDARY



Approximate dimensions in inches (mm).

UCE-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics											
Code	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Switchgear style (no fuse)											
753460060	60:1	7200/12470GY	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753460070	70:1	8400/14460GY	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753460100	100:1	12000/12000GY	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753460110	110:1	13200/13200GY	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753460120	120:1	14400/14400GY	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
Fuse clips only (no fuse)											
753461060	60:1	7200/12470GY	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753461070	70:1	8400/14460GY	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753461100	100:1	12000/12000GY	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753461110	110:1	13200/13200GY	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753461120	120:1	14400/14400GY	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
Fuse clips and fuse											
753462060	60:1	7200/12470GY	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753462070	70:1	8400/14460GY	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753462100	100:1	12000/12000GY	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753462110	110:1	13200/13200GY	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753462120	120:1	14400/14400GY	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5

All Units can be supplied either switchgear style, fuse clips only or fuses and clips. Please contact your commercial representant for further information.
Additional ratings available upon request.

Notes: .....

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UCI-17

15 kV VOLTAGE TRANSFORMER

INDOOR
60 Hertz

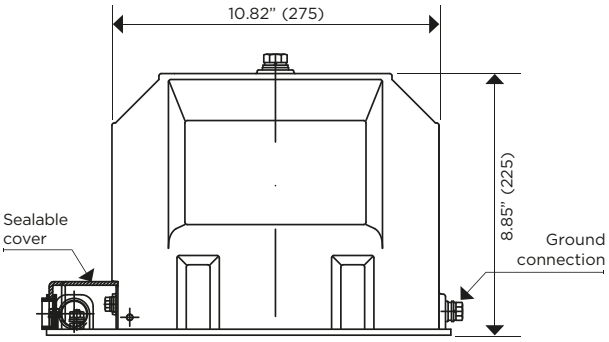
ARTECHE UC/UX/VC series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

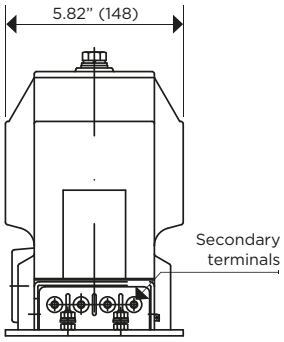
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

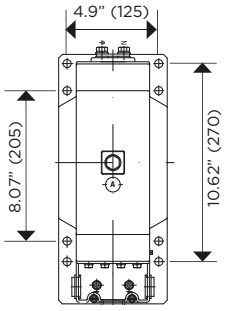
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

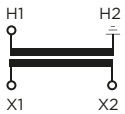
Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	60







Drawing number: 4286160

	ONE SECONDARY
MARKING (Single Primary Ratio)	

Approximate dimensions in inches (mm).

UCI-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

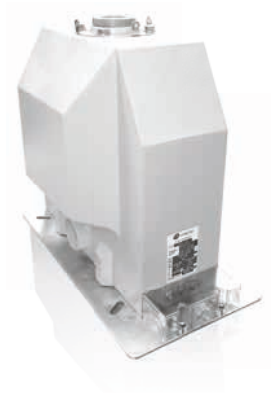
Code	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
753381060	60:1	7200/12470GY	120	0.3 W,X,M,Y	1.1	1.25	450	15	110	34	2.5
753381063	63.5:1	7620/13200GY	120	0.6 W,X,M,Y	1.1	1.25	450	15	110	34	2.5
753381070	70:1	8400/14550GY	120	0.6 W,X,M,Y	1.1	1.25	450	15	110	34	2.5

Additional ratings available upon request.

Notes:

UEN-17

15 kV VOLTAGE TRANSFORMER



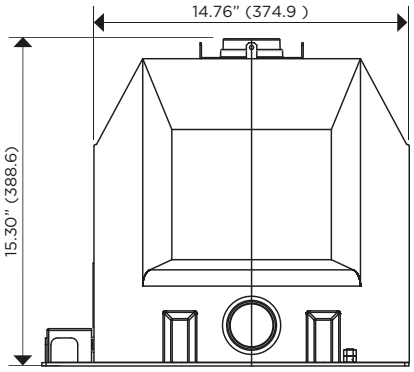
INDOOR
60 Hertz

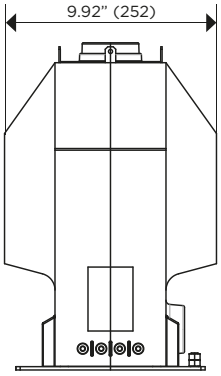
ARTECHE UEN series are dry type indoor service voltage transformers. The entire surface of the transformer is coated with a conductive layer that is intended to be solidly grounded when energized. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

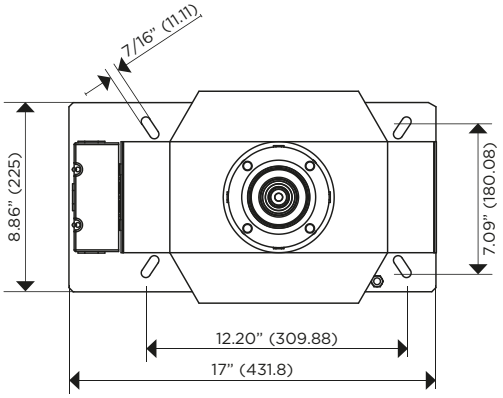
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	133

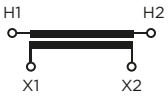




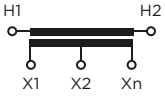


Drawing number: 4288294

MARKING (Single Primary Ratio)	ONE SECONDARY



MARKING (Double Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

UEN-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Switchgear style (no fuse)											
754550001	20:1	2400/4160GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754550002	35:1	4200/7280GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754550003	60:1	7200/12470GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754550004	63.5:1	7620/13200GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754550005	70:1	8400/14560GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754550006	83.33:1	10000/10000GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754550007	100:1	12000/12000GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754550008	110:1	13200/13200GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754550009	120:1	13800/13800GY	115	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754550010	120:1	14400/14400GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5

Additional ratings available upon request.

Secondary terminals:

- Size: M6
- Torque: 3 Nm
- Material: Brass

Notes: .....

UENS-17

15 kV VOLTAGE TRANSFORMER

INDOOR
60 Hertz

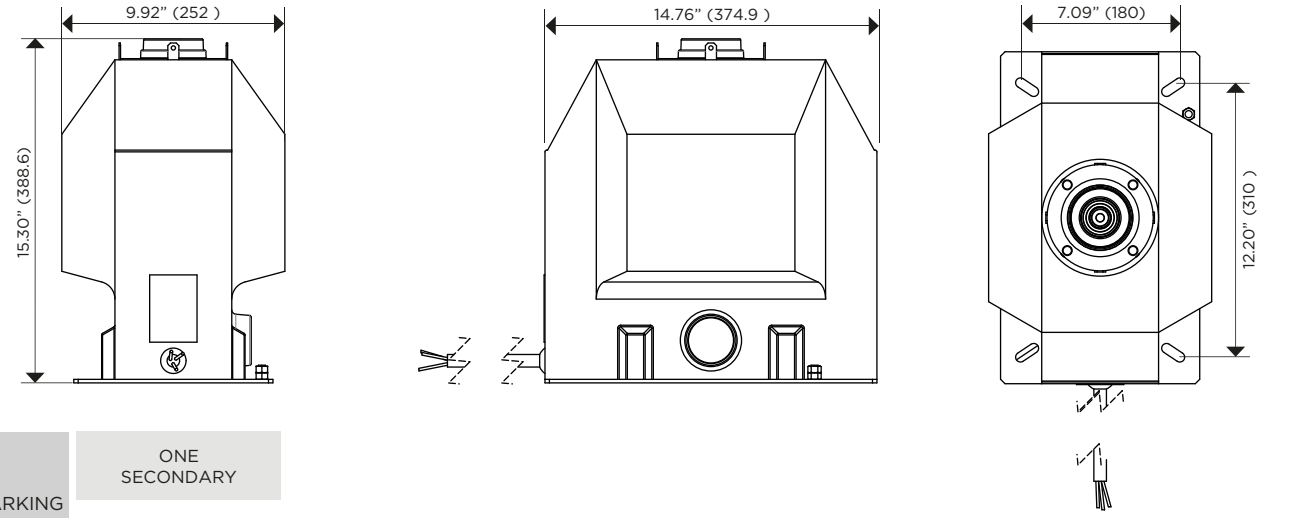
ARTECHE UENS series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

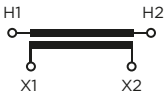
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

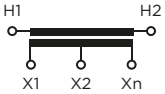
The new design is a voltage transformer for 19 feet (about 6 meter) intermittent submersible application with metallic coating. The model is cast in epoxy resin and is strongly insulated to environment. The UENS (single phase) models are metering units and rated for use up to 15kV submersible operation up to 110kV BIL. The medium voltage terminals are bushing wells compatible with IEEE 386 interfaces.

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	101



Drawing number: 4288296

MARKING (Single Primary Ratio)	ONE SECONDARY
	

MARKING (Double Ratio)	ONE SECONDARY
	

Approximate dimensions in inches (mm).

UENS-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Submersible style											
754560001	20:1	2400/4160GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754560002	35:1	4200/7280GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754560003	60:1	7200/12470GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754560004	63.5:1	7620/13200GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754560005	70:1	8400/14560GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754560006	83.33:1	10000/10000GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754560007	100:1	12000/12000GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754560008	110:1	13200/13200GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754560009	120:1	13800/13800GY	115	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754560010	120:1	14400/14400GY	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5

Additional ratings available upon request.

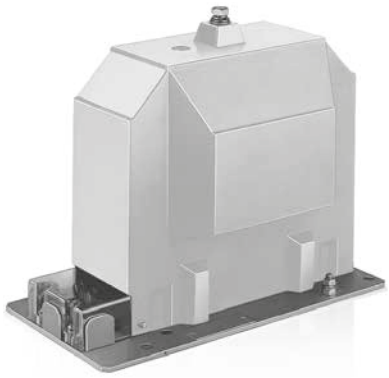
Secondary terminals:

- 19' Submersible wire.

Notes:

UXL-17

15 kV VOLTAGE TRANSFORMER



INDOOR
60 Hertz

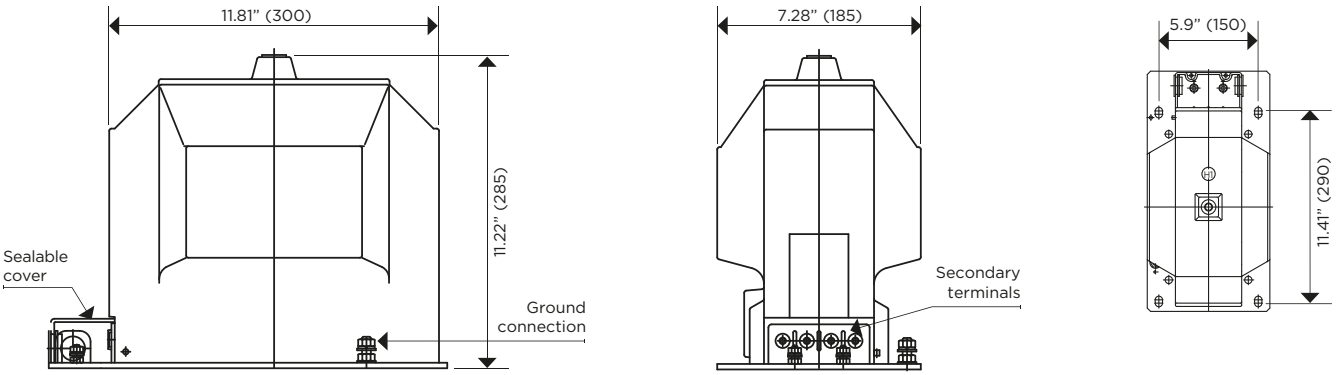
ARTECHE UC/UX/VC series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

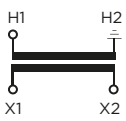
UL Recognized Component File No.:E252140

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	60



Drawing number: 4286157

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

UXL-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
753441060	60:1	7200/12470GY	120	0.3 W,X,M,Y	1.1	1.5	500	15	110	34	2.5
753441063	63.5:1	7620/13200GY	120	0.3 W,X,M,Y	1.1	1.5	500	15	110	34	2.5
753441070	70:1	8400/14550GY	120	0.3 W,X,M,Y	1.1	1.5	500	15	110	34	2.5

Additional ratings available upon request.

Notes:

VCE-17

15 kV VOLTAGE TRANSFORMER

INDOOR
60 Hertz

ARTECHE UC/UX/VC series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

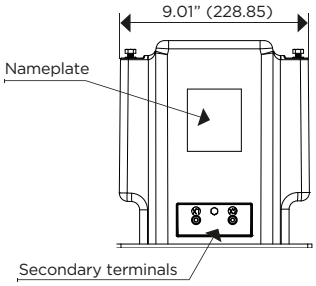
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

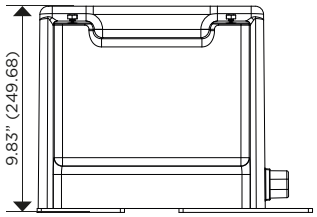
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

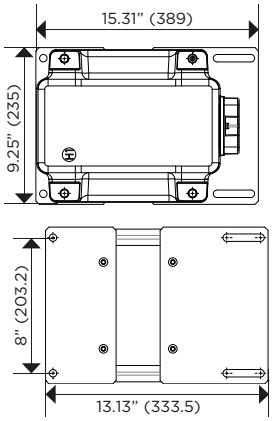
UL Recognized Component File No.:E252140

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	85

Unfused

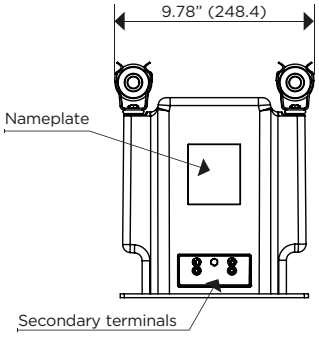


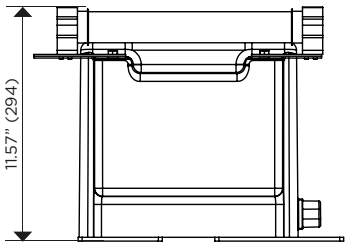


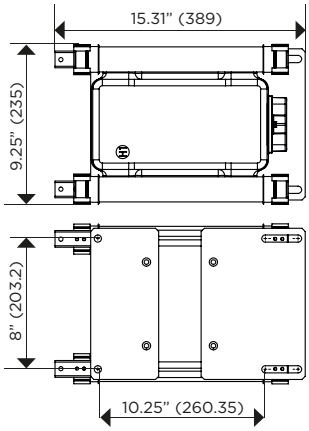


Drawing number: 4287539

Fused

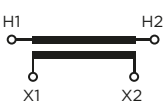






Drawing number: 4286372

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

VCE-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Switchgear style (no fuse)											
753450060	60:1	7200/12470Y	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753450070	70:1	8400/14460Y	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753450100	100:1	12000/12000Y	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753450110	110:1	13200/13200Y	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753450120	120:1	14400/14400Y	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
Fuse clips only (no fuse)											
753451060	60:1	7200/12470Y	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753451070	70:1	8400/14460Y	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753451100	100:1	12000/12000Y	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753451110	110:1	13200/13200Y	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753451120	120:1	14400/14400Y	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
Fuse clips and fuse											
753452060	60:1	7200/12470Y	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753452070	70:1	8400/14460Y	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753452100	100:1	12000/12000Y	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753452110	110:1	13200/13200Y	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5
753452120	120:1	14400/14400Y	120	0.3 W,X,M,Y,Z/1.2ZZ	1.1	1.25	1500	15	110	34	2.5

All Units can be supplied either switchgear style. fuse clips only or fuses and clips. Please contact your commercial representant for further information.
Additional ratings available upon request.

Notes: .....

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VCL-17

15 kV VOLTAGE TRANSFORMER

INDOOR
60 Hertz

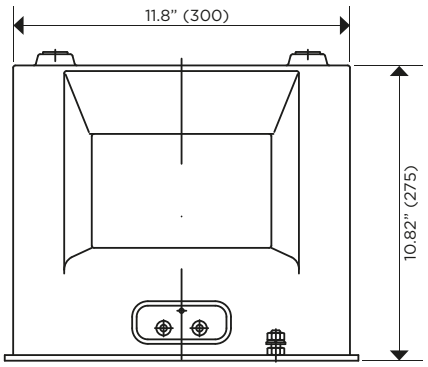
ARTECHE UC/UX/VC series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

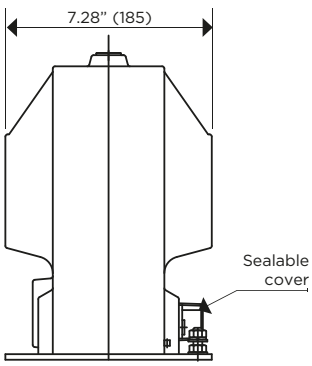
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

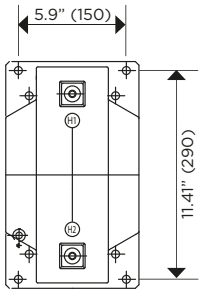
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	62

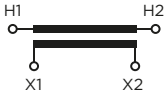






Drawing number: 4286156

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

VCL-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
753501060	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	600	15	110	34	2.5
753501063	63.5:1	7620/13200Y	120	0.3 W,X,M,Y	1.1	1.25	600	15	110	34	2.5
753501070	70:1	8400/14450Y	120	0.3 W,X,M,Y	1.1	1.25	600	15	110	34	2.5
753501100	100:1	12000/12000Y	120	0.3 W,X,M,Y	1.1	1.25	600	15	110	34	2.5
753501110	110:1	13200/13200Y	120	0.3 W,X,M,Y	1.1	1.25	600	15	110	34	2.5
753501120	120:1	14400/14400Y	120	0.3 W,X,M,Y	1.1	1.25	600	15	110	34	2.5

Additional ratings available upon request.

Notes: .....

VEN-17

15 kV VOLTAGE TRANSFORMER

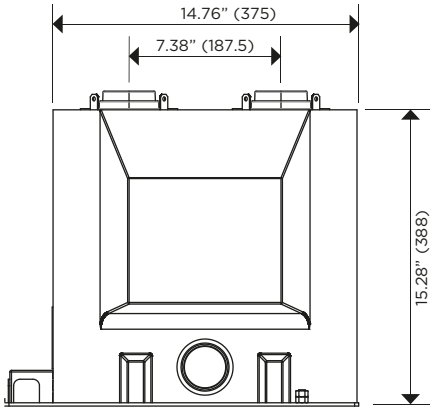
INDOOR
60 Hertz

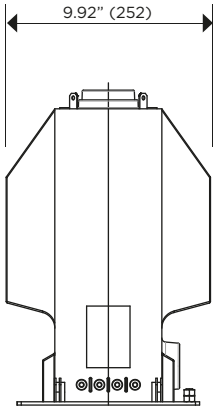
ARTECHE VEN series are dry type indoor service voltage transformers. The entire surface of the transformer is coated with a conductive layer that is intended to be solidly grounded when energized. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

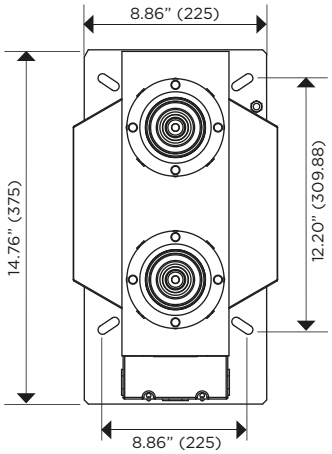
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	140

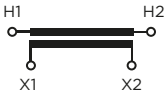




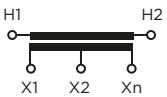


Drawing number: 4288298

MARKING (Single Primary Ratio)	ONE SECONDARY



MARKING (Double Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

VEN-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Switchgear style (no fuse)											
754570001	20:1	2400/4160Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754570002	35:1	4200/7280Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754570003	40:1	4800/8320Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754570004	57.73:1	6928/12000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754570005	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754570006	63.5:1	7620/13200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754570007	66.42:1	7970/13800Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754570008	70:1	8400/14560Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754570009	83.33:1	10000/10000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754570010	100:1	12000/12000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754570011	103.9:1	12470/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754570012	110:1	13200/13200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754570013	115:1	13800/13800Y	115	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754570014	120:1	14400/14400Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5

Additional ratings available upon request.

Secondary terminals:

- Size: M6
- Torque: 3 Nm
- Material: Brass

Notes: .....

VENS-17

15 kV VOLTAGE TRANSFORMER

INDOOR
60 Hertz

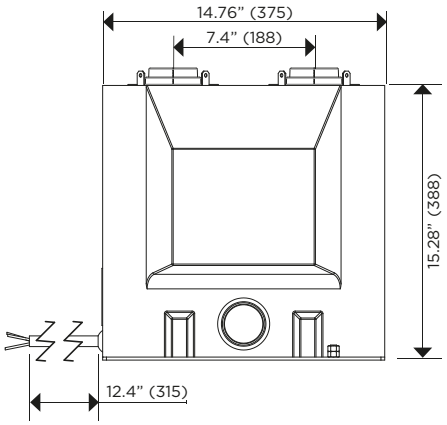
ARTECHE VENS series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

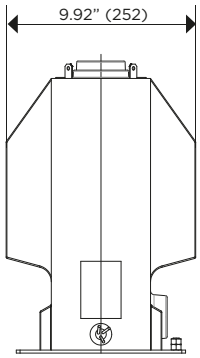
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

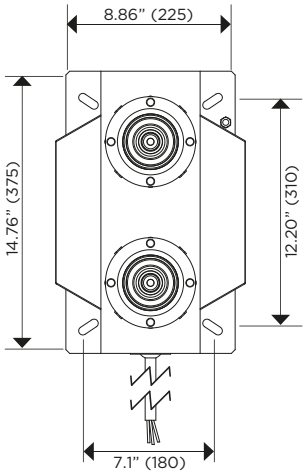
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

The new design is a voltage transformer for 19 feet (about 6 meter) intermittent submersible application with metallic coating. The model is cast in epoxy resin and is strongly insulated to environment. The VEN-17 (two phase) models are metering units and rated for use up to 15kV submersible operation up to 110kV BIL. The medium voltage terminals are bushing wells compatible with IEEE 386 interfaces.

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	140

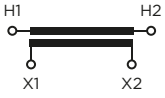






Drawing number: 4288301

MARKING (Single Primary Ratio)	ONE SECONDARY



MARKING (Double Ratio)	ONE SECONDARY

Approximate dimensions in inches (mm).

VENS-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Submersible style											
754580001	20:1	2400/4160Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754580002	35:1	4200/7280Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754580003	40:1	4800/8320Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754580004	57.73:1	6928/12000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754580005	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754580006	63.5:1	7620/13200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754580007	66.42:1	7970/13800Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754580008	70:1	8400/14560Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754580009	83.33:1	10000/10000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754580010	100:1	12000/12000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754580011	103.9:1	12470/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754580012	110:1	13200/13200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754580013	115:1	13800/13800Y	115	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5
754580014	120:1	14400/14400Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	95	34	2.5

Additional ratings available upon request.

Secondary terminals:

- 19' Submersible wire.

Notes: .....

UCJ-24

25 kV VOLTAGE TRANSFORMER

INDOOR
60 Hertz

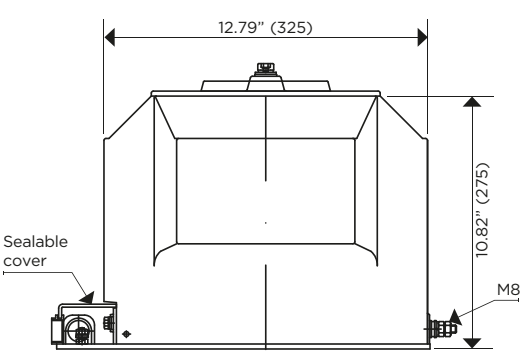
ARTECHE UC/UX/VC series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

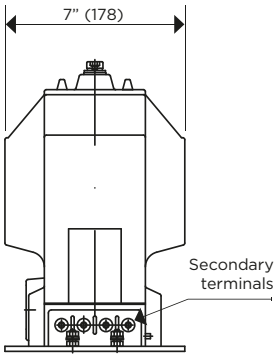
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

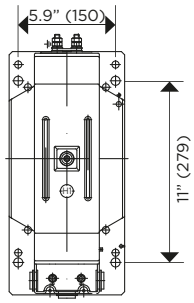
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	66

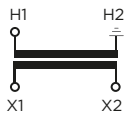






Drawing number: 4286163

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

UCJ-24

25 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Marked Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
753541100	100:1	12000/20750GY	120	0.3 W,X,M,Y	1.1	1.5	750	25	125	50	2.5
753541120	120:1	14400/24940GY	120	0.3 W,X,M,Y	1.1	1.5	750	25	125	50	2.5
753541200	200:1	24000/24000GY	120	0.3 W,X,M,Y	1.1	1.5	750	25	125	50	2.5

Additional ratings available upon request.

Notes:

UEI-24

25 kV VOLTAGE TRANSFORMER

INDOOR
60 Hertz

ARTECHE UE series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

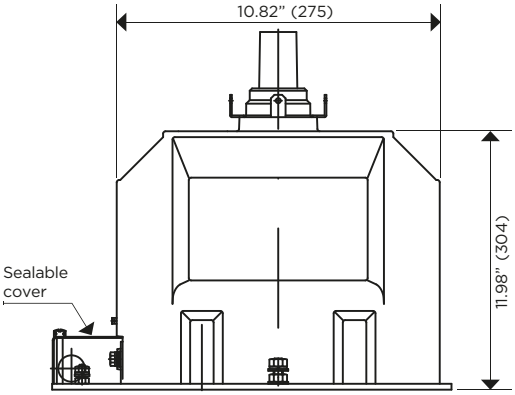
The entire surface of the transformer is coated with a conductive layer that is intended to be solidly grounded when energized. This allows for compact mounting inside switchgear or enclosures.

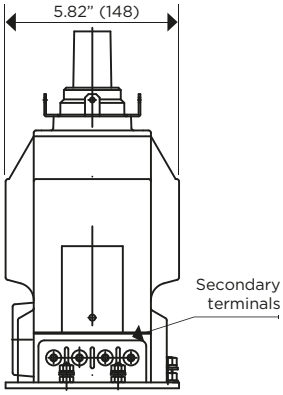
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

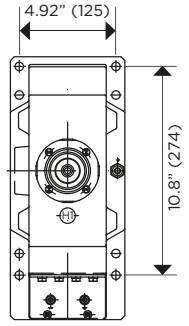
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	62

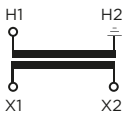






Drawing number: 4286164

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

UEI-24

25 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
753681100	100:1	12000/20780GY	120	0.6 W,X,M	1.1	1.25	350	25	125	50	2.5
753681120	120:1	14400/24940GY	120	0.6 W,X,M	1.1	1.25	350	25	125	50	2.5

Additional ratings available upon request.

Notes: .....

UEN-24

25 kV VOLTAGE TRANSFORMER

INDOOR
60 Hertz

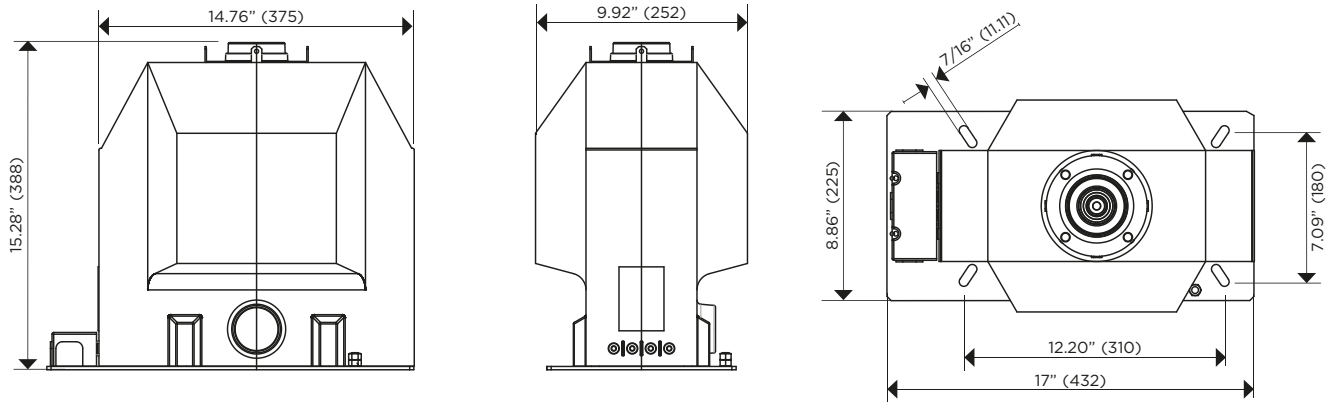
ARTECHE UEN series are dry type indoor service voltage transformers. The entire surface of the transformer is coated with a conductive layer that is intended to be solidly grounded when energized. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

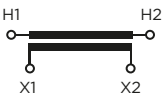
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

c UL Recognized Component File No.:E252140

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	110



Drawing number: 4287887

	ONE SECONDARY
MARKING (Single Primary Ratio)	
MARKING (Double Ratio)	

Approximate dimensions in inches (mm).

UEN-24

25 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Switchgear style (no fuse)											
753710001	100:1	12000/20780GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
753710002	120:1	14400/24940GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
753710003	200:1	24000/24000GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5

Additional ratings available upon request.

Secondary terminals:

- Size: M6
- Torque: 3 Nm
- Material: Brass

Notes:

UENS-24

25 kV VOLTAGE TRANSFORMER

INDOOR
60 Hertz

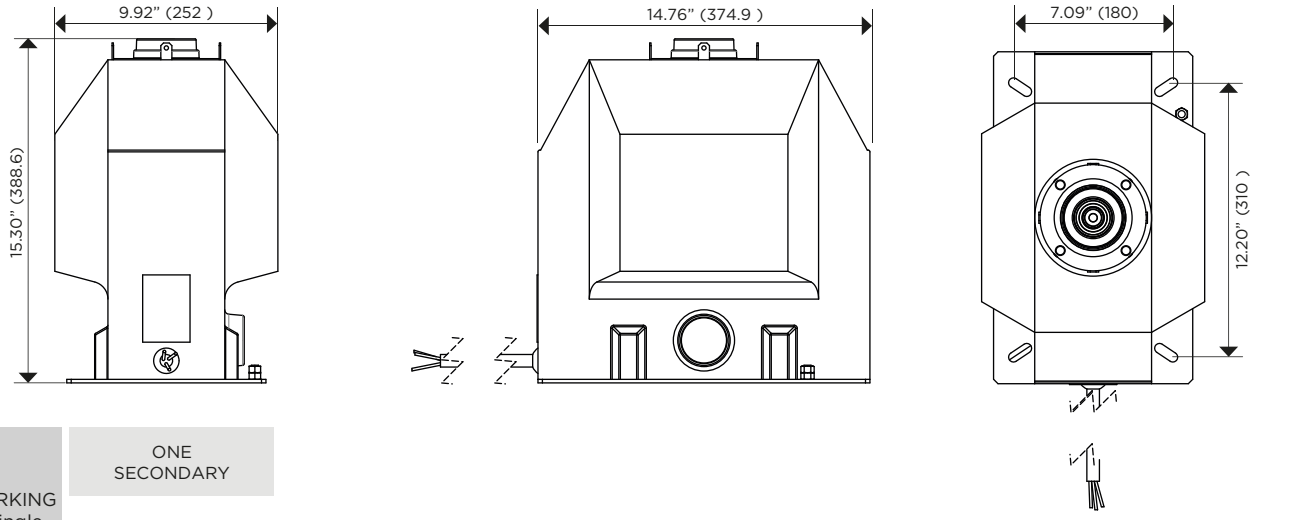
ARTECHE UENS series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

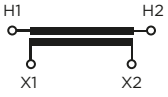
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

The new design is a voltage transformer for 19 feet (about 6 meter) intermittent submersible application with metallic coating. The model is cast in epoxy resin and is strongly insulated to environment. The UENS (single phase) models are metering units and rated for use up to 25kV submersible operation up to 150kV BIL. The medium voltage terminals are bushing wells compatible with IEEE 386 interfaces.

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	101



Drawing number: 4288297

MARKING (Single Primary Ratio)	ONE SECONDARY
	

MARKING (Double Ratio)	ONE SECONDARY
	

Approximate dimensions in inches (mm).

UENS-24

25 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Submersible style											
754050001	100:1	12000/20780GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
754050002	120:1	14400/24940GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
754050003	200:1	24000/24000GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5

Additional ratings available upon request.

Secondary terminals:

- 19' Submersible wire.

Notes:

VCL-24

25 kV VOLTAGE TRANSFORMER

INDOOR
60 Hertz

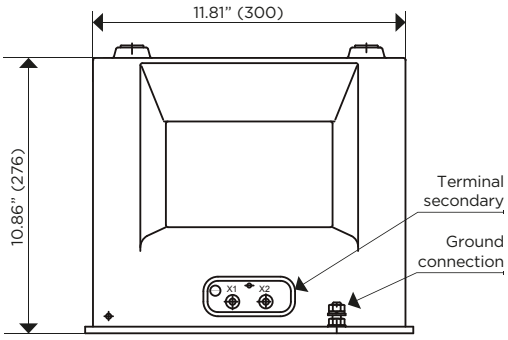
ARTECHE UC/UX/VC series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

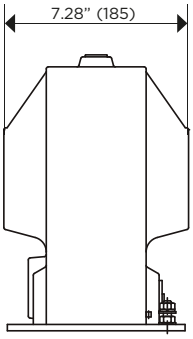
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

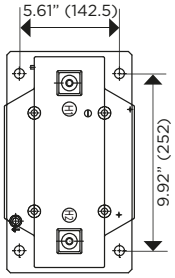
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	62

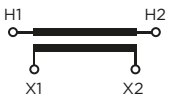






Drawing number: 4286158

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

VCL-24

25 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
753801100	100:1	12000/20750Y	120	0.3 W,X,M,Y	1.1	1.25	600	25	125	50	2.5
753801120	120:1	14400/24940Y	120	0.3 W,X,M,Y	1.1	1.25	600	25	125	50	2.5
753801200	200:1	24000/24000Y	120	0.3 W,X,M,Y	1.1	1.25	600	25	125	50	2.5

Additional ratings available upon request.

Notes:

VEN-24

25 kV VOLTAGE TRANSFORMER

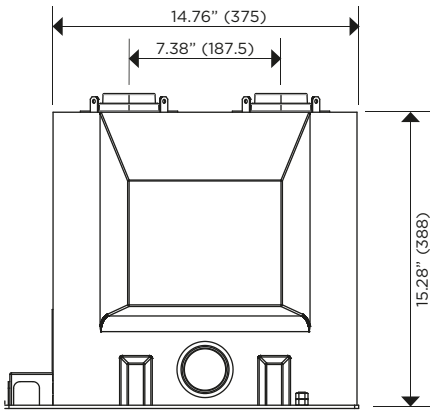
INDOOR
60 Hertz

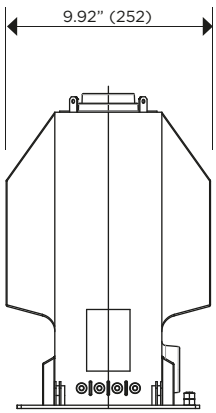
ARTECHE VEN series are dry type indoor service voltage transformers. The entire surface of the transformer is coated with a conductive layer that is intended to be solidly grounded when energized. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

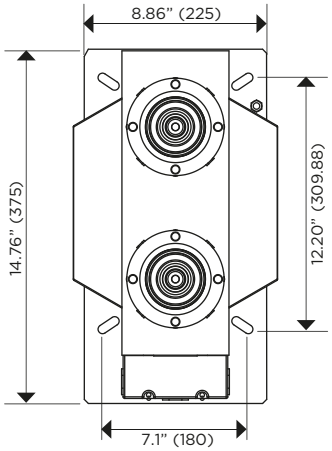
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	140

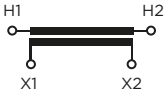






Drawing number: 4288299

MARKING (Single Primary Ratio)	ONE SECONDARY



MARKING (Double Ratio)	ONE SECONDARY

Approximate dimensions in inches (mm).

VEN-24

25 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Switchgear style (no fuse)											
753820001	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
753820002	63.5:1	7620/132010Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
753820003	70:1	8400/14560Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
753820004	100:1	12000/20780Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
753820005	120:1	14400/24940Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
753820006	150:1	18000/18000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
753820007	200:1	24000/24000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
753820008	207.83:1	24940/24940Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5

Additional ratings available upon request.

Secondary terminals:

- Size: M6
- Torque: 3 Nm
- Material: Brass

Notes:

VENS-24

25 kV VOLTAGE TRANSFORMER

INDOOR
60 Hertz

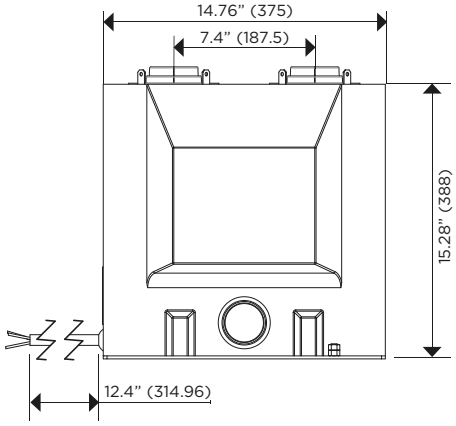
ARTECHE VENS series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

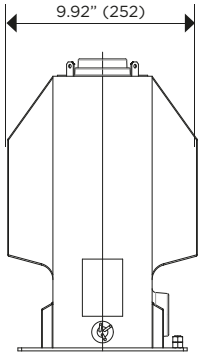
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

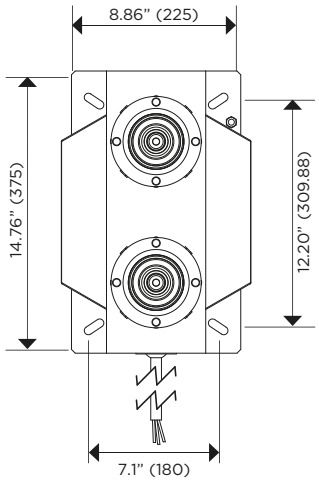
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

The new design is a voltage transformer for 19 feet (about 6 meter) intermittent submersible application with metallic coating. The model is cast in epoxy resin and is strongly insulated to environment. The VEN-24 (two phase) models are metering units and rated for use up to 25kV submersible operation up to 150kV BIL. The medium voltage terminals are bushing wells compatible with IEEE 386 interfaces.

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	140

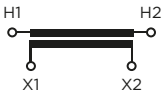






Drawing number: 4288302

MARKING (Single Primary Ratio)	ONE SECONDARY



MARKING (Double Ratio)	ONE SECONDARY

Approximate dimensions in inches (mm).

VENS-24

25 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Submersible style											
753910002	63.5:1	7620/132010Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
753910003	70:1	8400/14560Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
753910004	100:1	12000/20780Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
753910005	120:1	14400/24940Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
753910006	150:1	18000/18000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
753910007	200:1	24000/24000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5
753910008	207.83:1	24940/24940Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	125	50	2.5

Additional ratings available upon request.

Secondary terminals:

- 19' Submersible wire.

Notes:

UEN-36

34.5 kV VOLTAGE TRANSFORMER

INDOOR
60 Hertz

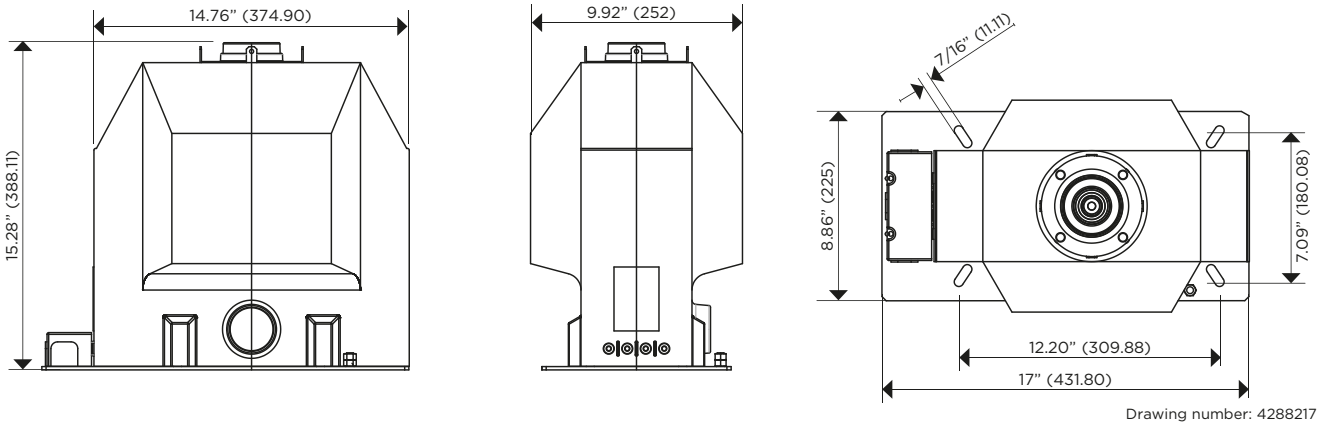
ARTECHE UEN series are dry type indoor service voltage transformers. The entire surface of the transformer is coated with a conductive layer that is intended to be solidly grounded when energized. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

c UL Recognized Component File No.:E252140

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	133



Drawing number: 4288217

MARKING (Single Primary Ratio)	ONE SECONDARY H1 H2 X1 X2
MARKING (Double Ratio)	ONE SECONDARY H1 H2 X1 X2 Xn

Approximate dimensions in inches (mm).

UEN-36

34.5 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Switchgear style (no fuse)											
754200001	175:1	20125/34500GY	115	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754200002	200:1	24000/24000GY	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754200003	207.5:1	24900/24900GY	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754200004	208.33:1	25000/25000GY	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754200005	220:1	26400/26400GY	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754200006	240:1	27600/27600GY	115	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754200007	240:1	28800/28800GY	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754200008	300:1	34500/34500GY	115	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5

Additional ratings available upon request.

Secondary terminals:

- Size: M6
- Torque: 3 Nm
- Material: Brass

Notes: .....

UENS-36

34.5 kV VOLTAGE TRANSFORMER

INDOOR
60 Hertz

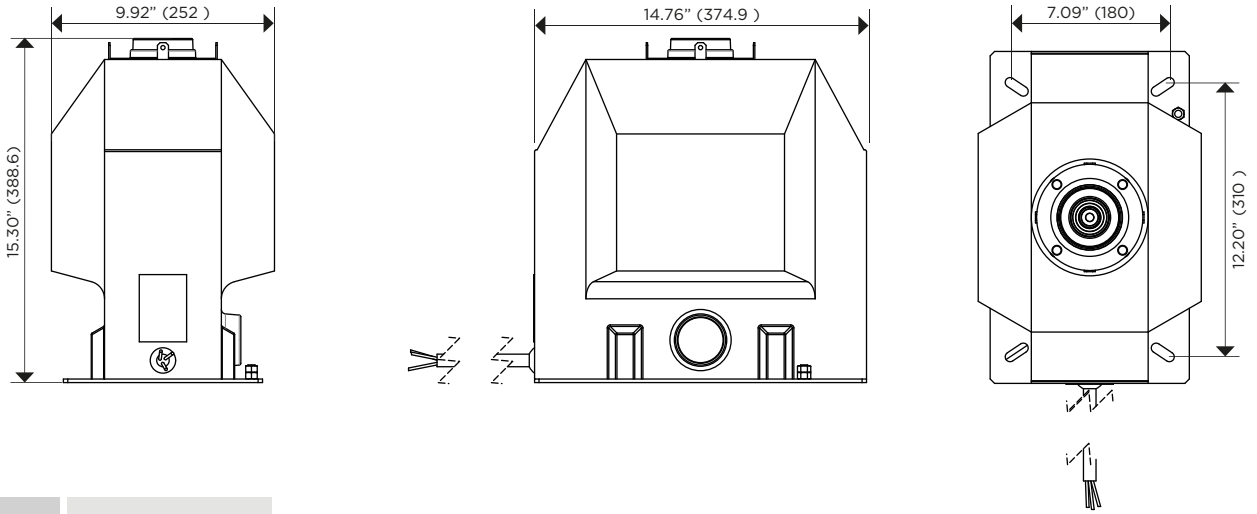
ARTECHE UENS series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

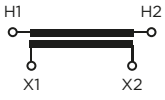
The new design is a voltage transformer for 19 feet (about 6 meter) intermittent submersible application with metallic coating. The model is cast in epoxy resin and is strongly insulated to environment. The UENS (single phase) models are metering units and rated for use up to 34.5kV submersible operation up to 200kV BIL. The medium voltage terminals are bushing wells compatible with IEEE 386 interfaces.

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	133



Drawing number: 4288217

MARKING (Single Primary Ratio)	ONE SECONDARY



MARKING (Double Ratio)	ONE SECONDARY

Approximate dimensions in inches (mm).

UENS-36

34.5 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Submersible style											
754150001	175:1	20125/34500GY	115	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754150002	200:1	24000/24000GY	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754150003	207.5:1	24900/24900GY	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754150004	208.33:1	25000/25000GY	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754150005	220:1	26400/26400GY	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754150006	240:1	27600/27600GY	115	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754150007	240:1	28800/28800GY	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754150008	300:1	34500/34500GY	115	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5

Additional ratings available upon request.

Secondary terminals:

- 19' Submersible wire.

Notes:

UCS-36

34.5 kV VOLTAGE TRANSFORMER

Unfused Fused

INDOOR
60 Hertz

ARTECHE UC/UX/VC series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

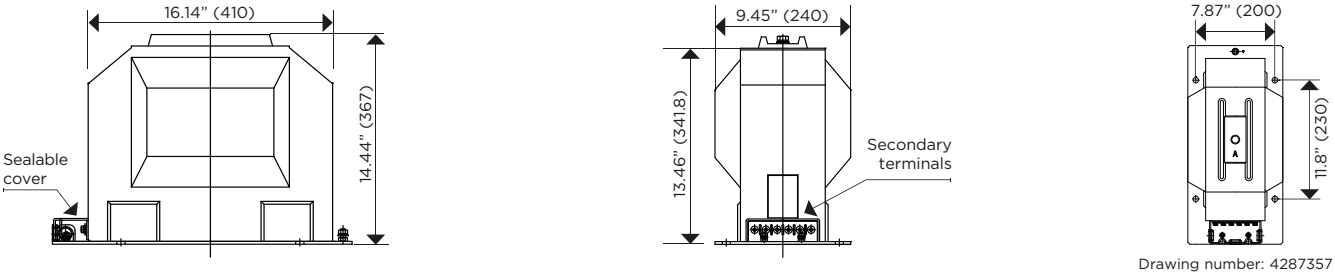
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

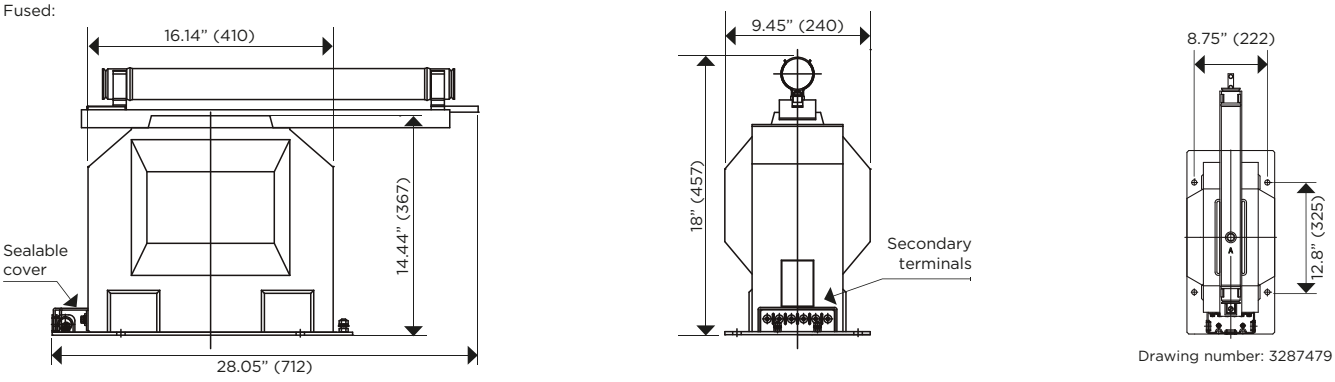
Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	167

Unfused:



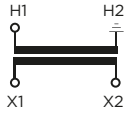
Drawing number: 4287357

Fused:



Drawing number: 3287479

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

UCS-36

34.5 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
UNFUSED											
754260175	175:1	20125/34500GY	115	0.3 W,X,M,Y,Z	1.1	1.5	1500	34.5	200	70	2.5
754260300	300:1	34500/34500GY	115	0.3 W,X,M,Y,Z	1.1	1.5	1500	34.5	200	70	2.5
754260289	289:1	19942/34500GY	69	0.3 W,X,M,Y	1.1	1.5	1500	34.5	200	70	2.5
754260240	240:1	16100/27900GY	67.08	0.3 W,X,M,Y	1.1	1.5	1500	34.5	200	70	2.5
FUSED											
754262175	175:1	20125/34500GY	115	0.3 W,X,M,Y,Z	1.1	1.5	1500	34.5	200	70	2.5
754262300	300:1	34500/34500GY	115	0.3 W,X,M,Y,Z	1.1	1.5	1500	34.5	200	70	2.5
754262200	200:1	24000/24000GY	120	0.3 W,X,M,Y,Z	1.1	1.5	1500	34.5	200	70	2.5
754262208	208.33:1	25000/25000GY	120	0.3 W,X,M,Y,Z	1.1	1.5	1500	34.5	200	70	2.5
754262220	220:1	26400/26400GY	120	0.3 W,X,M,Y,Z	1.1	1.5	1500	34.5	200	70	2.5
754262207	207.5:1	24900/24900GY	120	0.3 W,X,M,Y,Z	1.1	1.5	1500	34.5	200	70	2.5
754262240	240:1	27600/27600GY	115	0.3 W,X,M,Y,Z	1.1	1.5	1500	34.5	200	70	2.5

Additional ratings available upon request.

Notes: .....

UXN-36

34.5 kV VOLTAGE TRANSFORMER

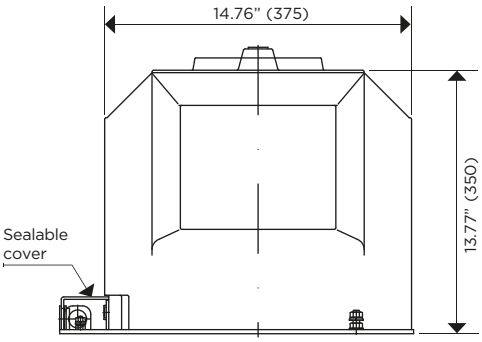
INDOOR
60 Hertz

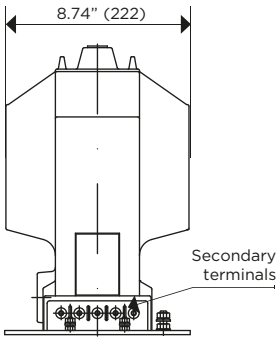
ARTECHE UC/UX/VC series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

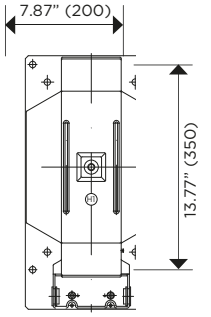
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	97

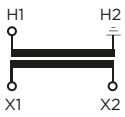






Drawing number: 4286161

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

UXN-36

34.5 kV VOLTAGE TRANSFORMER

Electrical characteristics

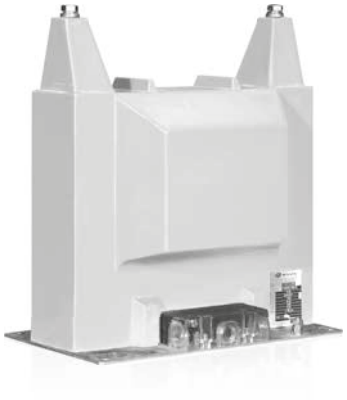
Code	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
754391175	175:1	20125/34500GY	115	0.3 W,X,M,Y	1.1	1.5	750	34.5	200	70	2.5

Additional ratings available upon request.

Notes: .....

VCN-36

34.5 kV VOLTAGE TRANSFORMER



INDOOR
60 Hertz

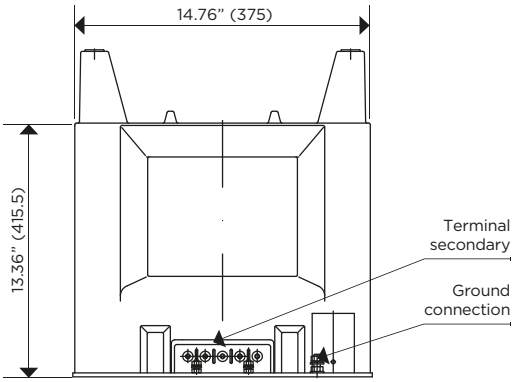
ARTECHE UC/UX/VC series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

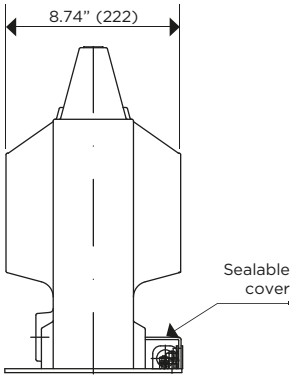
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

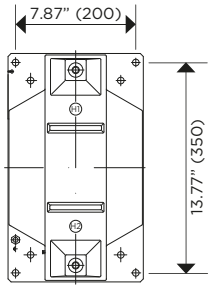
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	99

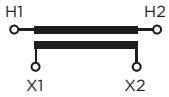






Drawing number: 4286162

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

VCN-36

34.5 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
754421300	300:1	34500/34500Y	120	0.3 W,X,M,Y	1.1	1.5	751	34.5	200	70	2.5

Additional ratings available upon request.

Notes: .....

VEN-36

34.5 kV VOLTAGE TRANSFORMER

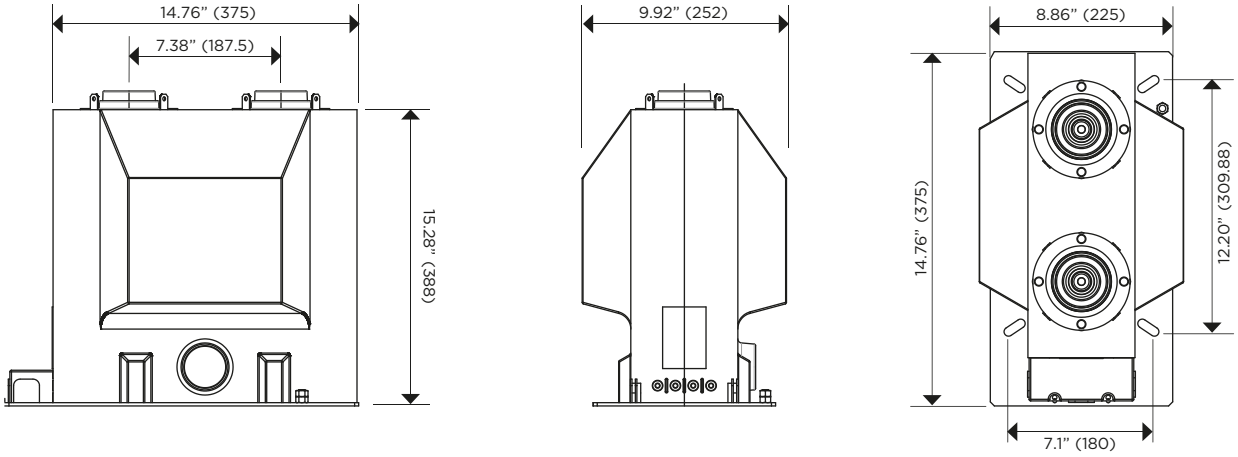
INDOOR
60 Hertz

ARTECHE VEN series are dry type indoor service voltage transformers. The entire surface of the transformer is coated with a conductive layer that is intended to be solidly grounded when energized. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

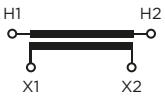
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	140



Drawing number: 4288300

MARKING (Single Primary Ratio)	ONE SECONDARY



MARKING (Double Ratio)	ONE SECONDARY

Approximate dimensions in inches (mm).

VEN-36

34.5 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Switchgear style (no fuse)											
754130001	150:1	18000/18000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754130002	175:1	20125/34500Y	115	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754130003	200:1	2400/2400Y	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754130004	220:1	26400/26400Y	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754130005	230:1	27600/27600Y	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754130006	240:1	27600/27600Y	115	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754130007	287.5:1	24500/34500Y	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754130008	300:1	34500/34500Y	115	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754130009	313.63:1	34500/34500Y	110	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5

Additional ratings available upon request.

Secondary terminals:

- Size: M6
- Torque: 3 Nm
- Material: Brass

Notes:

VENS-36

34.5 kV VOLTAGE TRANSFORMER

INDOOR
60 Hertz

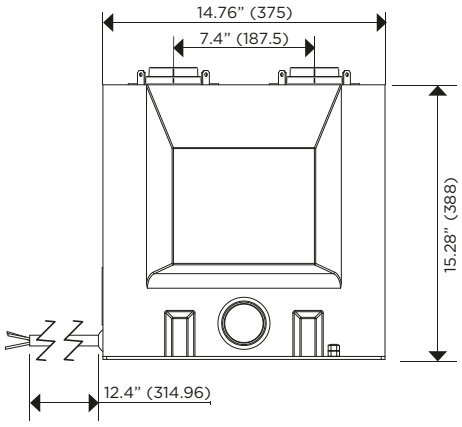
ARTECHE VENS series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. ensuring a long mechanical and electrical life. The transformer is maintenance free.

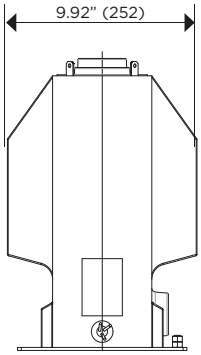
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage. achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

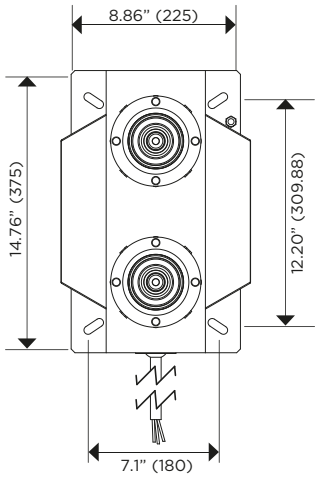
Partial Discharge measurements exceed the IEEE. CAN/CSA and IEC requirements.

The new design is a voltage transformer for 19 feet (about 6 meter) intermittent submersible application with metallic coating. The model is cast in epoxy resin and is strongly insulated to environment. The VEN-36 (two phase) models are metering units and rated for use up to 34.5kV submersible operation up to 200kV BIL. The medium voltage terminals are bushing wells compatible with IEEE 386 interfaces.

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	140

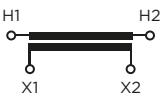




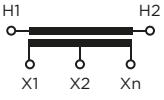


Drawing number: 4288303

MARKING (Single Primary Ratio)	ONE SECONDARY



MARKING (Double Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

VENS-36

34.5 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Submersible style											
754140001	150:1	18000/18000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754140002	175:1	20125/34500Y	115	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754140003	200:1	2400/2400Y	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754140004	220:1	26400/26400Y	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754140005	230:1	27600/27600Y	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754140006	240:1	27600/27600Y	115	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754140007	287.5:1	24500/34500Y	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754140008	300:1	34500/34500Y	115	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5
754140009	313.63:1	34500/34500Y	110	0.3 W,X,M,Y	1.1	1.25	1000	34.5	150	70	2.5

Additional ratings available upon request.

Secondary terminals:

- 19’ Submersible wire.

Notes:

VCS-36

34.5 kV VOLTAGE TRANSFORMER

Unfused

Fused

INDOOR
60 Hertz

ARTECHE UC/UX/VC series are dry type indoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

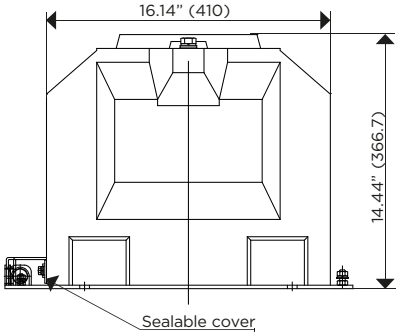
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

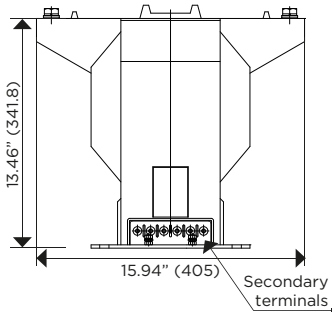
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

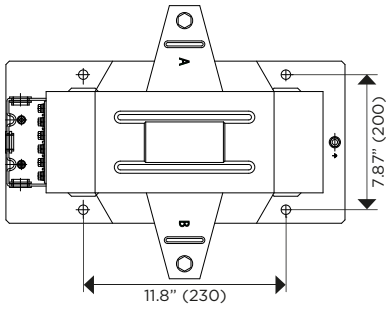
UL Recognized Component File No.:E252140

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	174

Unfused:

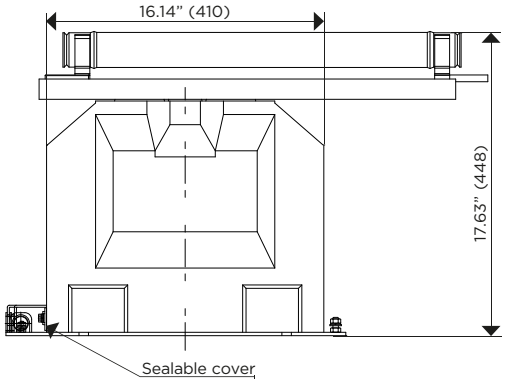


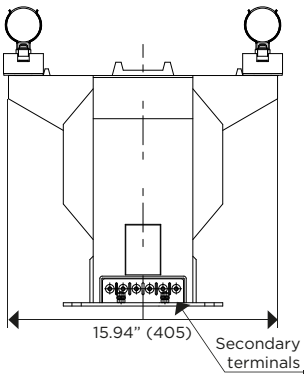


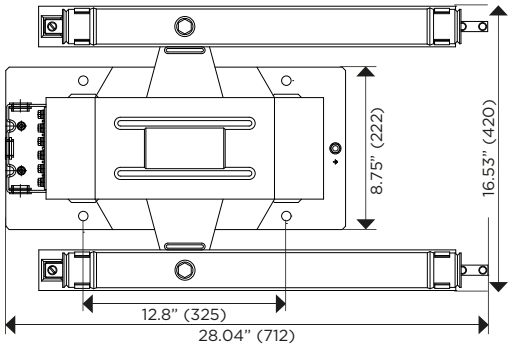


Drawing number: 4287358

Fused:



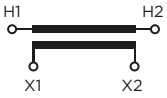




Drawing number: 4286162

MARKING (Single Primary Ratio)

ONE SECONDARY



Approximate dimensions in inches (mm).

VCS-36

34.5 kV VOLTAGE TRANSFORMER

Electrical characteristics

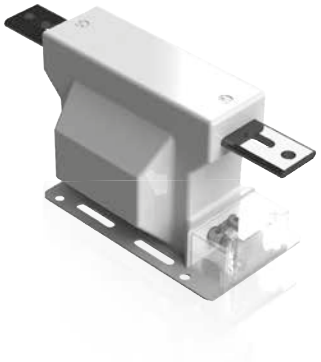
Code	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
UNFUSED											
754610175	175:1	20125/34500Y	115	0.3 W,X,M,Y,Z	1.1	1.5	1500	34.5	200	70	2.5
754610240	240:1	27600/27600Y	115	0.3 W,X,M,Y,Z	1.1	1.5	1500	34.5	200	70	2.5
754610300	300:1	34500/34500Y	115	0.3 W,X,M,Y,Z	1.1	1.5	1500	34.5	200	70	2.5
FUSED											
754612175	175:1	20125/34500Y	115	0.3 W,X,M,Y,Z	1.1	1.5	1500	34.5	200	70	2.5
754612240	240:1	27600/27600Y	115	0.3 W,X,M,Y,Z	1.1	1.5	1500	34.5	200	70	2.5
754612300	300:1	34500/34500Y	115	0.3 W,X,M,Y,Z	1.1	1.5	1500	34.5	200	70	2.5

Additional ratings available upon request.

Notes: .....

CID-7

5 kV CURRENT TRANSFORMER



INDOOR
60 Hertz

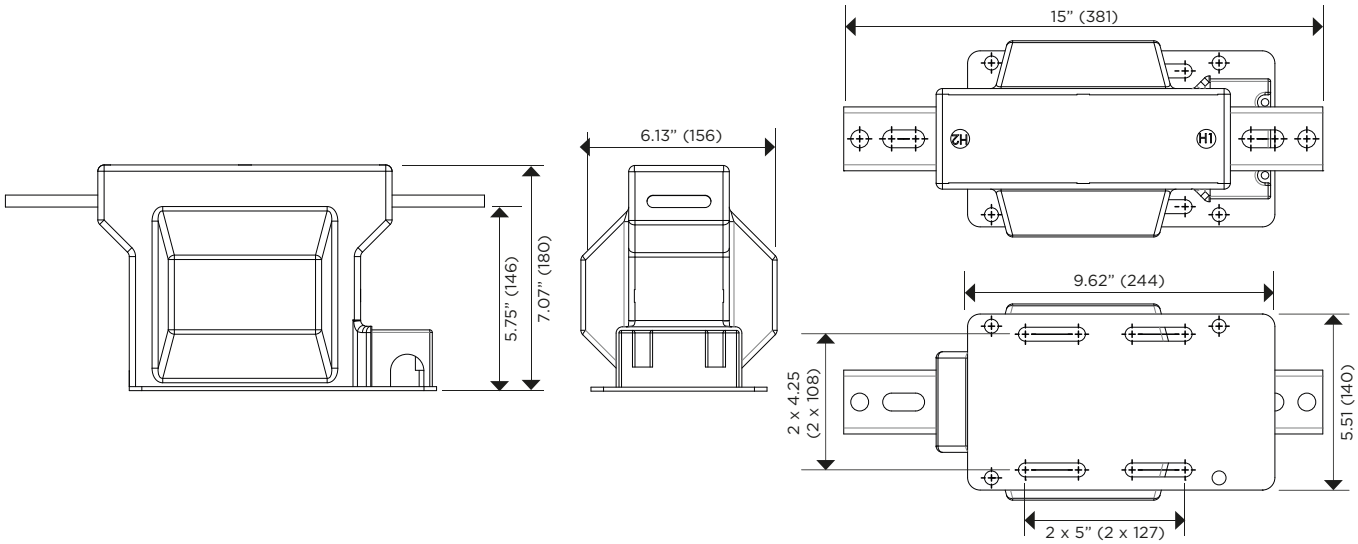
ARTECHE AC/CID Series are dry type indoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial discharge measurements exceed IEEE C57.13 2016 requirements.

UL Recognized Component File No.:E252140

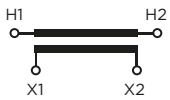
Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray *	38



Drawing number: 4287524

MARKING (Single Primary Ratio)

ONE SECONDARY



Approximate dimensions in inches (mm).

CID-7

5 kV CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Highest Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
750951001	5:5	1.5	0.5	1.35	0.3 B1.8	T-100	5	60	19	2.5
750951002	10:5	1.5	1	2.7	0.3 B1.8	T-100	5	60	19	2.5
750951003	15:5	1.5	1.5	4.05	0.3 B1.8	T-100	5	60	19	2.5
750951004	20:5	1.5	2	5.4	0.3 B1.8	T-100	5	60	19	2.5
750951005	25:5	1.5	2.5	6.75	0.3 B1.8	T-100	5	60	19	2.5
750951006	30:5	1.5	3	8.1	0.3 B1.8	T-100	5	60	19	2.5
750951008	40:5	1.5	4	10.8	0.3 B1.8	T-100	5	60	19	2.5
750951010	50:5	1.5	5	13.5	0.3 B1.8	T-100	5	60	19	2.5
750951015	75:5	1.5	7.5	20.25	0.3 B1.8	T-100	5	60	19	2.5
750951020	100:5	1.5	10	27	0.3 B1.8	T-100	5	60	19	2.5
750951030	150:5	1.5	15	40.5	0.3 B1.8	T-100	5	60	19	2.5
750951040	200:5	1.5	20	54	0.3 B1.8	T-100	5	60	19	2.5
750951060	300:5	1.5	30	81	0.3 B1.8	T-100	5	60	19	2.5
750951080	400:5	1.5	40	108	0.3 B1.8	T-100	5	60	19	2.5
750951120	600:5	1.5	60	162	0.3 B1.8	T-100	5	60	19	2.5
750951160	800:5	1.5	80	216	0.3 B1.8	T-100	5	60	19	2.5
750951200	1000:5	1.5	100	270	0.3 B1.8	T-100	5	60	19	2.5
750951240	1200:5	1.5	120	324	0.3 B1.8	T-100	5	60	19	2.5

Additional ratings available upon request.

Notes: .....

ACD-12

8.7 kV CURRENT TRANSFORMER

INDOOR
60 Hertz

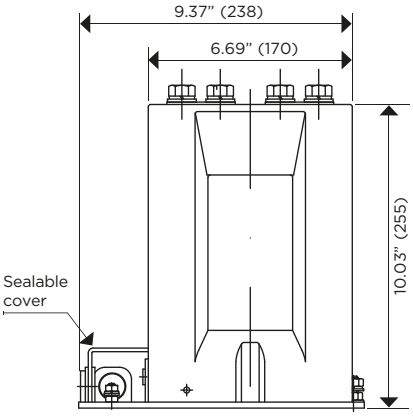
ARTECHE AC series are dry insulated indoor service current transformers. The CT core is encapsulated with Type B epoxy resin resulting in excellent internal dielectric properties and mechanical strength. The device is maintenance free, providing a long mechanical and electrical service life.

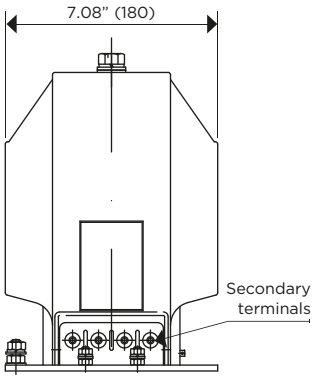
The core of the CT is constructed from silicon steel laminations with a high permeability grain orientation resulting in low core losses. The windings are copper wire with copper plate double isolation. Concentric distribution of the CT coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses under adverse operating conditions.

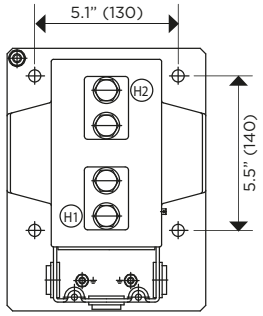
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	35.3

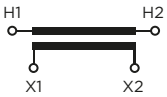






Drawing number: 4286138

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

ACD-12

8.7 kV CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
750251001	5:5	1.5	0.5	1	0.3 B-0.5	C-50	8.7	75	26	2.5
750251002	10:5	1.5	1	2	0.3 B-0.5	C-50	8.7	75	26	2.5
750251003	15:5	1.5	1.5	3	0.3 B-0.5	C-50	8.7	75	26	2.5
750251004	20:5	1.5	2	4	0.3 B-0.5	C-50	8.7	75	26	2.5
750251005	25:5	1.5	2.5	5	0.3 B-0.5	C-50	8.7	75	26	2.5
750251006	30:5	1.5	3	6	0.3 B-0.5	C-50	8.7	75	26	2.5
750251008	40:5	1.5	4	8	0.3 B-0.5	C-50	8.7	75	26	2.5
750251010	50:5	1.5	5	10	0.3 B-0.5	C-50	8.7	75	26	2.5
750251015	75:5	1.5	7.5	15	0.3 B-0.5	C-50	8.7	75	26	2.5
750251020	100:5	1.5	10	20	0.3 B-0.5	C-50	8.7	75	26	2.5
750251030	150:5	1.5	15	30	0.3 B-0.5	C-50	8.7	75	26	2.5
750251040	200:5	1.5	20	40	0.3 B-0.5	C-50	8.7	75	26	2.5
750251060	300:5	1.5	30	60	0.3 B-0.5	C-50	8.7	75	26	2.5
750251080	400:5	1.5	40	80	0.3 B-0.5	C-50	8.7	75	26	2.5
750251120	600:5	1.5	50	95	0.3 B-0.5	C-50	8.7	75	26	2.5
750251160	800:5	1.5	60	120	0.3 B-0.5	C-50	8.7	75	26	2.5
750251200	1000:5	1.2	75	135	0.3 B-0.5	C-50	8.7	75	26	2.5
750251240	1200:5	1.2	84	150	0.3 B-0.5	C-50	8.7	75	26	2.5

Additional ratings available upon request.

Notes: .....

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AGPE-12

8.7 kV CURRENT TRANSFORMER

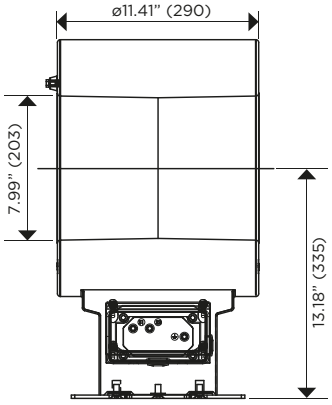
INDOOR
60 Hertz

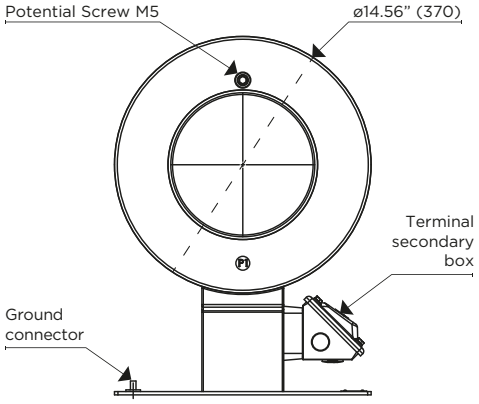
ARTECHE AG Series are dry type indoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

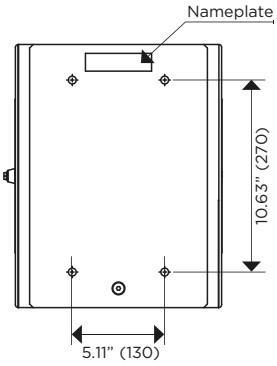
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

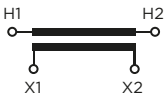
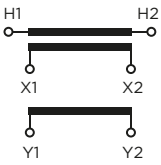
Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	165.3







Drawing number: 4286137

MARKING (Single Primary Ratio)	ONE SECONDARY	TWO SECONDARIES
		

Approximate dimensions in inches (mm).

AGPE-12

8.7 kV CURRENT TRANSFORMER

Electrical characteristics

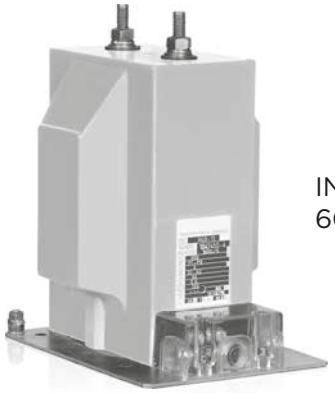
Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
750231400	2000:5	1.2	63	163.8	0.3 B-1.8		8.7	75	26	2.5
750232400	2000:5	1.2	63	163.8		C-400	8.7	75	26	2.5
750231600	3000:5	1.2	63	163.8	0.3 B-1.8		8.7	75	26	2.5
750232600	3000:5	1.2	63	163.8		C-400	8.7	75	26	2.5
750233400	2000:5	1.2	63	163.8	0.3 B-1.8	C-400	8.7	75	26	2.5
750233600	3000:5	1.2	63	163.8	0.3 B-1.8	C-400	8.7	75	26	2.5
750234400	2000:5	1.2	63	163.8	0.3 B-1.8	C-200, C-200	8.7	75	26	2.5
750234600	3000:5	1.2	63	163.8	0.3 B-1.8	C-200, C-200	8.7	75	26	2.5

Additional ratings available upon request.

Notes: .....

ACD-17

15 kV CURRENT TRANSFORMER



INDOOR
60 Hertz

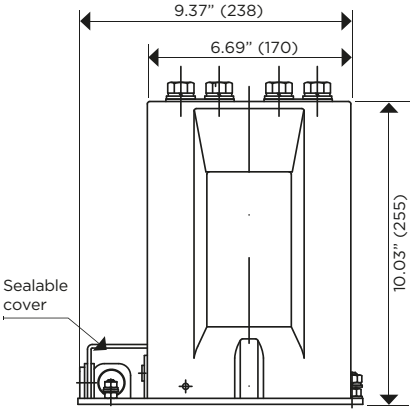
ARTECHE AC/CID Series are dry type indoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

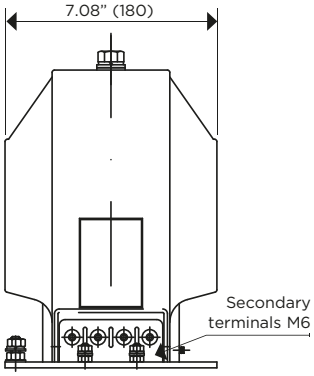
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

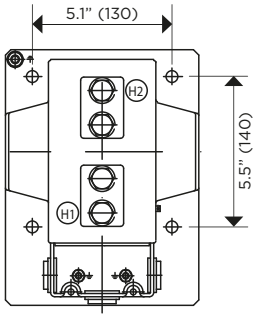
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	35.3

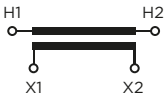






Drawing number: 4286139

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

ACD-17

15 kV CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
750491001	5:5	1.2	0.5	1	0.3 B-0.5	C-50	15	110	34	2.5
750491002	10:5	1.2	1	2	0.3 B-0.5	C-50	15	110	34	2.5
750491003	15:5	1.2	1.5	3	0.3 B-0.5	C-50	15	110	34	2.5
750491004	20:5	1.2	2	4	0.3 B-0.5	C-50	15	110	34	2.5
750491005	25:5	1.2	2.5	5	0.3 B-0.5	C-50	15	110	34	2.5
750491006	30:5	1.2	3	6	0.3 B-0.5	C-50	15	110	34	2.5
750491008	40:5	1.2	4	8	0.3 B-0.5	C-50	15	110	34	2.5
750491010	50:5	1.2	5	10	0.3 B-0.5	C-50	15	110	34	2.5
750491015	75:5	1.2	7.5	15	0.3 B-0.5	C-50	15	110	34	2.5
750491020	100:5	1.2	10	20	0.3 B-0.5	C-50	15	110	34	2.5
750491030	150:5	1.2	15	30	0.3 B-0.5	C-50	15	110	34	2.5
750491040	200:5	1.2	20	40	0.3 B-0.5	C-50	15	110	34	2.5
750491060	300:5	1.2	30	60	0.3 B-0.5	C-50	15	110	34	2.5
750491080	400:5	1.2	40	80	0.3 B-0.5	C-50	15	110	34	2.5
750491120	600:5	1.2	50	95	0.3 B-0.5	C-50	15	110	34	2.5
750491160	800:5	1.2	60	120	0.3 B-0.5	C-50	15	110	34	2.5
750491200	1000:5	1.2	75	135	0.3 B-0.5	C-50	15	110	34	2.5
750491240	1200:5	1.2	84	150	0.3 B-0.5	C-50	15	110	34	2.5

Additional ratings available upon request.

Notes: .....

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ACH-17

15 kV CURRENT TRANSFORMER

INDOOR
60 Hertz

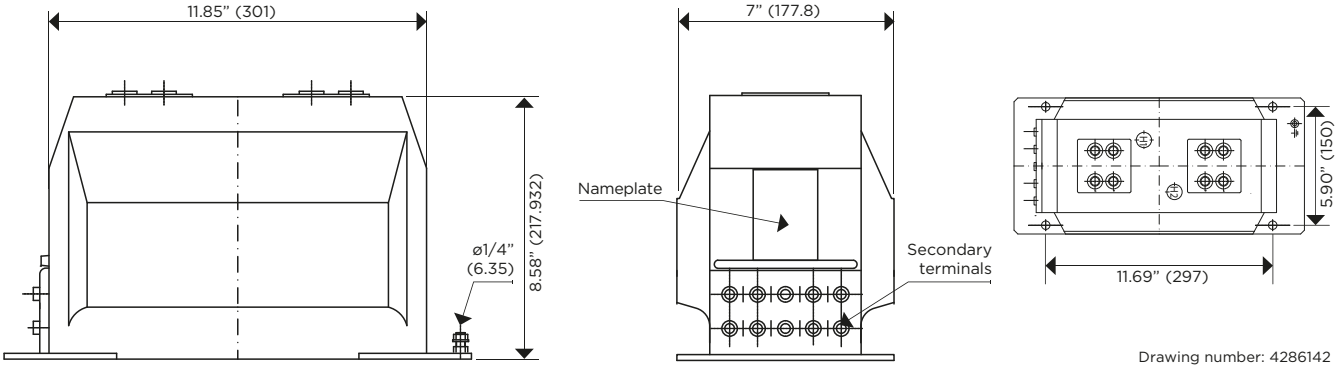
ARTECHE AC/CID Series are dry type indoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

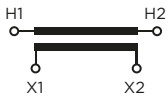
Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	63.8



Drawing number: 4286142

MARKING (Single Primary Ratio)

ONE SECONDARY



Approximate dimensions in inches (mm).

ACH-17

15 kV CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
750561010	50:5	1.2	5	10	0.3 B-0.5	C-50	15	110	34	2.5
750561015	75:5	1.2	7.5	15	0.3 B-0.5	C-50	15	110	34	2.5
750561020	100:5	1.2	10	20	0.3 B-0.5	C-50	15	110	34	2.5
750561030	150:5	1.2	15	30	0.3 B-1.0	C-50	15	110	34	2.5
750561040	200:5	1.2	20	40	0.3 B-1.0	C-50	15	110	34	2.5
750561060	300:5	1.2	30	60	0.3 B-1.0	C-50	15	110	34	2.5
750561080	400:5	1.2	40	80	0.3 B-1.8	C-100	15	110	34	2.5
750561120	600:5	1.2	50	95	0.3 B-1.8	C-100	15	110	34	2.5
750561160	800:5	1.2	60	120	0.3 B-1.8	C-100	15	110	34	2.5
750561200	1000:5	1.2	75	135	0.3 B-1.8	C-200	15	110	34	2.5
750561240	1200:5	1.2	84	150	0.3 B-1.8	C-200	15	110	34	2.5

Additional ratings available upon request.

Notes: .....

ACI-17

15 kV CURRENT TRANSFORMER

INDOOR
60 Hertz

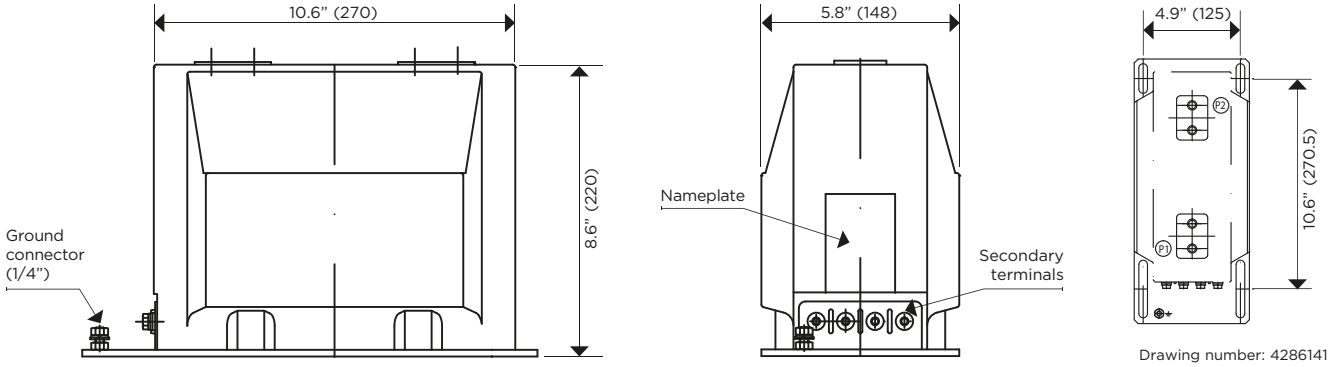
ARTECHE AC/CID Series are dry type indoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

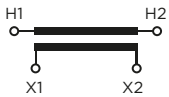
Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	46.2



Drawing number: 4286141

MARKING (Single Primary Ratio)

ONE SECONDARY



Approximate dimensions in inches (mm).

ACI-17

15 kV CURRENT TRANSFORMER

Electrical characteristics

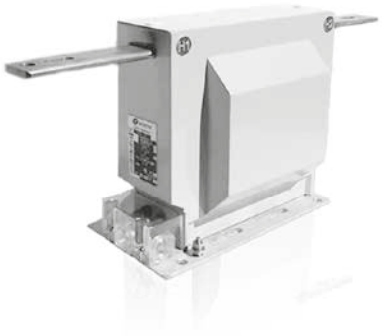
Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
750511010	50:5	1.2	5	10	0.3 B-0.5	C-50	15	110	34	2.5
750511015	75:5	1.2	7.5	15	0.3 B-0.5	C-50	15	110	34	2.5
750511020	100:5	1.2	10	20	0.3 B-0.5	C-50	15	110	34	2.5
750511030	150:5	1.2	15	30	0.3 B-0.5	C-50	15	110	34	2.5
750511040	200:5	1.2	20	40	0.3 B-0.5	C-50	15	110	34	2.5
750511060	300:5	1.2	30	60	0.3 B-0.5	C-50	15	110	34	2.5
750511080	400:5	1.2	40	80	0.3 B-0.5	C-50	15	110	34	2.5
750511120	600:5	1.2	50	95	0.3 B-0.9	C-50	15	110	34	2.5
750511160	800:5	1.2	60	120	0.3 B-0.9	C-50	15	110	34	2.5
750511200	1000:5	1.2	75	135	0.3 B-0.9	C-50	15	110	34	2.5
750511240	1200:5	1.2	84	150	0.3 B-0.9	C-100	15	110	34	2.5

Additional ratings available upon request.

Notes: .....

CID-17

15 kV CURRENT TRANSFORMER



INDOOR
60 Hertz

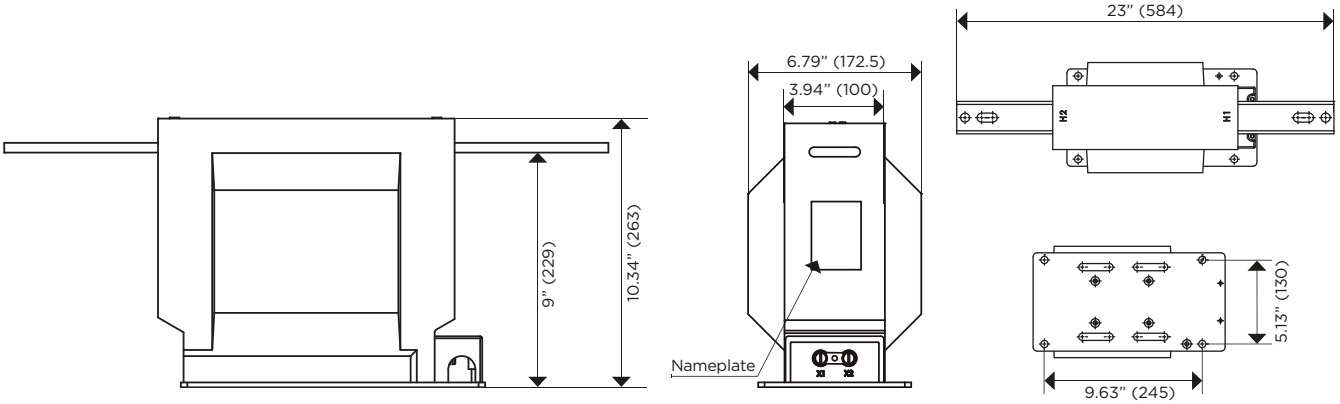
ARTECHE AC/CID Series are dry type indoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

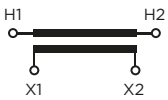
UL Recognized Component File No.:E252140

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	55



Drawing number: 4287278

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

CID-17

15 kV CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
750961001	5:5	1.5	0.5	1	0.3 B-1.8	C-200	15	110	34	2.5
750961002	10:5	1.5	1	2	0.3 B-1.8	C-200	15	110	34	2.5
750961003	15:5	1.5	1.5	3	0.3 B-1.8	C-200	15	110	34	2.5
750961004	20:5	1.5	2	4	0.3 B-1.8	C-200	15	110	34	2.5
750961005	25:5	1.5	2.5	5	0.3 B-1.8	C-200	15	110	34	2.5
750961006	30:5	1.5	3	6	0.3 B-1.8	C-200	15	110	34	2.5
750961008	40:5	1.5	4	8	0.3 B-1.8	C-200	15	110	34	2.5
750961010	50:5	1.5	5	10	0.3 B-1.8	C-200	15	110	34	2.5
750961015	75:5	1.5	7.5	15	0.3 B-1.8	C-200	15	110	34	2.5
750961020	100:5	1.5	10	20	0.3 B-1.8	C-200	15	110	34	2.5
750961030	150:5	1.5	15	30	0.3 B-1.8	C-200	15	110	34	2.5
750961040	200:5	1.5	20	40	0.3 B-1.8	C-200	15	110	34	2.5
750961060	300:5	1.5	30	60	0.3 B-1.8	C-200	15	110	34	2.5
750961080	400:5	1.5	40	80	0.3 B-1.8	C-200	15	110	34	2.5
750961120	600:5	1.5	50	95	0.3 B-1.8	C-200	15	110	34	2.5
750961160	800:5	1.5	60	120	0.3 B-1.8	C-200	15	110	34	2.5
750961200	1000:5	1.5	75	135	0.3 B-1.8	C-200	15	110	34	2.5
750961240	1200:5	1.2	84	150	0.3 B-1.8	C-200	15	110	34	2.5
750969001	5:5	1.5	0.5	1	0.15 B0.5	-	15	110	34	2.5
750969002	10:5	1.5	1	2	0.15 B0.5	-	15	110	34	2.5
750969003	15:5	1.5	1.5	3	0.15 B0.5	-	15	110	34	2.5
750969004	20:5	1.5	2	4	0.15 B0.5	-	15	110	34	2.5
750969005	25:5	1.5	2.5	5	0.15 B0.5	-	15	110	34	2.5
750969006	30:5	1.5	3	6	0.15 B0.5	-	15	110	34	2.5
750969008	40:5	1.5	4	8	0.15 B0.5	-	15	110	34	2.5
750969010	50:5	1.5	5	10	0.15 B0.5	-	15	110	34	2.5
750969015	75:5	1.5	7.5	15	0.15 B0.5	-	15	110	34	2.5
750969020	100:5	1.5	10	20	0.15 B0.5	-	15	110	34	2.5
750969030	150:5	1.5	15	30	0.15 B0.5	-	15	110	34	2.5
750969040	200:5	1.5	20	40	0.15 B0.5	-	15	110	34	2.5
750969060	300:5	1.5	30	60	0.15 B0.5	-	15	110	34	2.5
750969080	400:5	1.5	40	80	0.15 B0.5	-	15	110	34	2.5
750969120	600:5	1.5	50	95	0.15 B0.5	-	15	110	34	2.5
750969160	800:5	1.5	60	120	0.15 B0.5	-	15	110	34	2.5
750969200	1000:5	1.5	75	135	0.15 B0.5	-	15	110	34	2.5
750969240	1200:5	1.2	84	150	0.15 B0.5	-	15	110	34	2.5

Additional ratings available upon request.

CID-17

15 kV CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
High Accuracy Extended Range 5% nominal current to Rating Factor										
750967001	5:5	1.5	0.5	1	0.15S B0.5	-	15	110	34	2.5
750967002	10:5	1.5	1	2	0.15S B0.5	-	15	110	34	2.5
750967003	15:5	1.5	1.5	3	0.15S B0.5	-	15	110	34	2.5
750967004	20:5	1.5	2	4	0.15S B0.5	-	15	110	34	2.5
750967005	25:5	1.5	2.5	5	0.15S B0.5	-	15	110	34	2.5
750967006	30:5	1.5	3	6	0.15S B0.5	-	15	110	34	2.5
750967008	40:5	1.5	4	8	0.15S B0.5	-	15	110	34	2.5
750967010	50:5	1.5	5	10	0.15S B0.5	-	15	110	34	2.5
750967015	75:5	1.5	7.5	15	0.15S B0.5	-	15	110	34	2.5
750967020	100:5	1.5	10	20	0.15S B0.5	-	15	110	34	2.5
750967030	150:5	1.5	15	30	0.15S B0.5	-	15	110	34	2.5
750967040	200:5	1.5	20	40	0.15S B0.5	-	15	110	34	2.5
750967060	300:5	1.5	30	60	0.15S B0.5	-	15	110	34	2.5
750967080	400:5	1.5	40	80	0.15S B0.5	-	15	110	34	2.5
750967120	600:5	1.5	50	95	0.15S B0.5	-	15	110	34	2.5
750967160	800:5	1.5	60	120	0.15S B0.5	-	15	110	34	2.5
750967200	1000:5	1.5	75	135	0.15S B0.5	-	15	110	34	2.5
750967240	1200:5	1.2	84	150	0.15S B0.5	-	15	110	34	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor										
750968040	200:5	2.0	20	40	0.15 B-1.8	-	15	110	34	2.5
750968120	600:5	2.0	50	95	0.15 B-1.8	-	15	110	34	2.5
750968200	1000:5	1.5	75	135	0.15 B-1.8	-	15	110	34	2.5
750968240	1200:5	1.2	84	150	0.15 B-1.8	-	15	110	34	2.5

Additional ratings available upon request.

CID-17

15 kV CURRENT TRANSFORMER

Notes:

ACD-24

25 kV CURRENT TRANSFORMER

INDOOR
60 Hertz

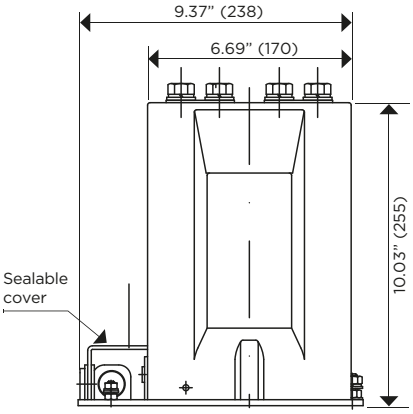
ARTECHE AC/CID Series are dry type indoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

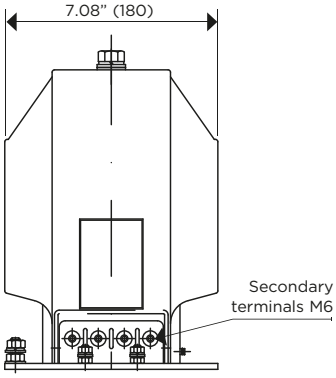
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

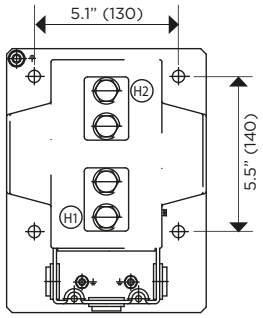
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	35.3



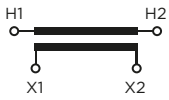




Drawing number: 4286140

MARKING (Single Primary Ratio)

ONE SECONDARY



Approximate dimensions in inches (mm).

ACD-24

25 kV CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
750681001	5:5	1.2	0.5	1	0.3 B-0.5	C-50	25	150	50	2.5
750681002	10:5	1.2	1	2	0.3 B-0.5	C-50	25	150	50	2.5
750681003	15:5	1.2	1.5	3	0.3 B-0.5	C-50	25	150	50	2.5
750681004	20:5	1.2	2	4	0.3 B-0.5	C-50	25	150	50	2.5
750681005	25:5	1.2	2.5	5	0.3 B-0.5	C-50	25	150	50	2.5
750681006	30:5	1.2	3	6	0.3 B-0.5	C-50	25	150	50	2.5
750681008	40:5	1.2	4	8	0.3 B-0.5	C-50	25	150	50	2.5
750681010	50:5	1.2	5	10	0.3 B-0.5	C-50	25	150	50	2.5
750681015	75:5	1.2	7.5	15	0.3 B-0.5	C-50	25	150	50	2.5
750681020	100:5	1.2	10	20	0.3 B-0.5	C-50	25	150	50	2.5
750681030	150:5	1.2	15	30	0.3 B-0.5	C-50	25	150	50	2.5
750681040	200:5	1.2	20	40	0.3 B-0.5	C-50	25	150	50	2.5
750681060	300:5	1.2	30	60	0.3 B-0.5	C-50	25	150	50	2.5
750681080	400:5	1.2	40	80	0.3 B-0.5	C-50	25	150	50	2.5
750681120	600:5	1.2	50	95	0.3 B-0.5	C-50	25	150	50	2.5
750681160	800:5	1.2	60	120	0.3 B-0.5	C-50	25	150	50	2.5
750681200	1000:5	1.2	75	135	0.3 B-0.5	C-50	25	150	50	2.5
750681240	1200:5	1.2	84	150	0.3 B-0.5	C-50	25	150	50	2.5

Additional ratings available upon request.

Notes: .....

ACH-24

25 kV CURRENT TRANSFORMER

INDOOR
60 Hertz

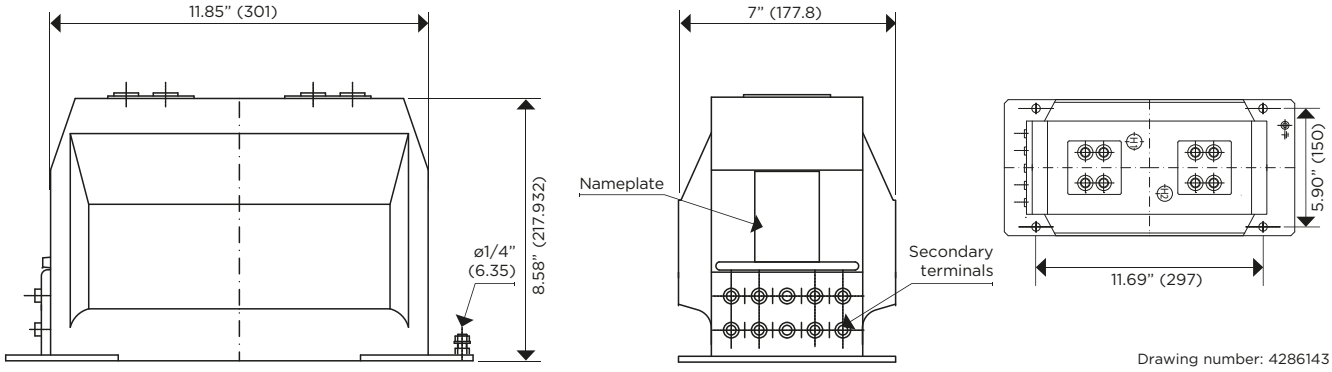
ARTECHE AC/CID Series are dry type indoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

c UL Recognized Component File No.:E252140

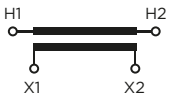
Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	63.8



Drawing number: 4286143

MARKING (Single Primary Ratio)

ONE SECONDARY



Approximate dimensions in inches (mm).

ACH-24

25 kV CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
750741015	75:5	1.2	7.5	15	0.3 B-0.5	C-50	25	150	50	2.5
750741020	100:5	1.2	10	20	0.3 B-0.5	C-50	25	150	50	2.5
750741030	150:5	1.2	15	30	0.3 B-0.5	C-50	25	150	50	2.5
750741040	200:5	1.2	20	40	0.3 B-1.0	C-50	25	150	50	2.5
750741060	300:5	1.2	30	60	0.3 B-1.0	C-50	25	150	50	2.5
750741080	400:5	1.2	40	80	0.3 B-1.0	C-50	25	150	50	2.5
750741120	600:5	1.2	50	95	0.3 B-1.8	C-100	25	150	50	2.5
750741160	800:5	1.2	60	120	0.3 B-1.8	C-100	25	150	50	2.5
750741200	1000:5	1.2	75	135	0.3 B-1.8	C-200	25	150	50	2.5
750741240	1200:5	1.2	84	150	0.3 B-1.8	C-200	25	150	50	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor										
750746040	200:5	2.0	20	40	0.15 B-1.8	-	25	150	50	2.5
750746120	600:5	1.2	75	135	0.15 B-1.8	-	25	150	50	2.5
750746200	1000:5	1.2	75	135	0.15 B-1.8	-	25	150	50	2.5
750746240	1200:5	1.2	75	135	0.15 B-1.8	-	25	150	50	2.5

Additional ratings available upon request.

Notes: .....

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ACA-36

34.5 kV CURRENT TRANSFORMER

INDOOR
60 Hertz

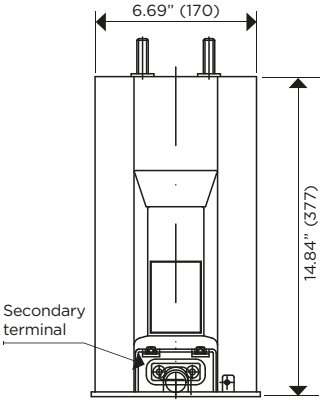
ARTECHE AC/CID Series are dry type indoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

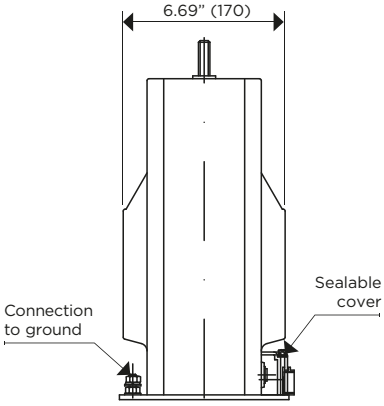
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

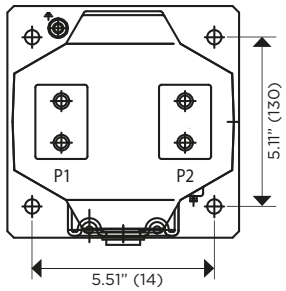
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	35.3

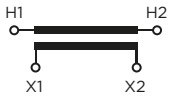






Drawing number: 4286144

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

ACA-36

34.5 kV CURRENT TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
751111001	5:5	1.2	0.5	1	0.3 B-0.5	C-50	34.5	200	70	2.5
751111002	10:5	1.2	1	2	0.3 B-0.5	C-50	34.5	200	70	2.5
751111003	15:5	1.2	1.5	3	0.3 B-0.5	C-50	34.5	200	70	2.5
751111004	20:5	1.2	2	4	0.3 B-0.5	C-50	34.5	200	70	2.5
751111005	25:5	1.2	2.5	5	0.3 B-0.5	C-50	34.5	200	70	2.5
751111006	30:5	1.2	3	6	0.3 B-0.5	C-50	34.5	200	70	2.5
751111008	40:5	1.2	4	8	0.3 B-0.5	C-50	34.5	200	70	2.5
751111010	50:5	1.2	5	10	0.3 B-0.5	C-50	34.5	200	70	2.5
751111015	75:5	1.2	7.5	15	0.3 B-0.5	C-50	34.5	200	70	2.5
751111020	100:5	1.2	10	20	0.3 B-0.5	C-50	34.5	200	70	2.5
751111030	150:5	1.2	15	30	0.3 B-0.5	C-50	34.5	200	70	2.5
751111040	200:5	1.2	20	40	0.3 B-0.5	C-50	34.5	200	70	2.5
751111060	300:5	1.2	30	60	0.3 B-0.5	C-50	34.5	200	70	2.5
751111080	400:5	1.2	40	80	0.3 B-0.5	C-50	34.5	200	70	2.5
751111120	600:5	1.2	50	95	0.3 B-0.5	C-50	34.5	200	70	2.5
751111160	800:5	1.2	60	120	0.3 B-0.5	C-50	34.5	200	70	2.5
751111200	1000:5	1.2	75	135	0.3 B-0.5	C-50	34.5	200	70	2.5
751111240	1200:5	1.2	84	150	0.3 B-0.5	C-50	34.5	200	70	2.5

Additional ratings available upon request.

Notes: .....

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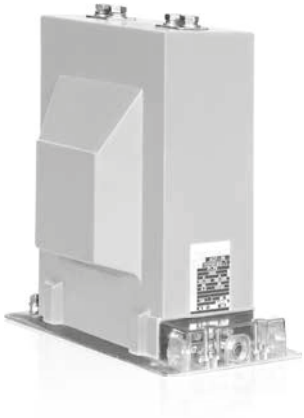
ACF-36

34.5 kV CURRENT TRANSFORMER



INDOOR
60 Hertz

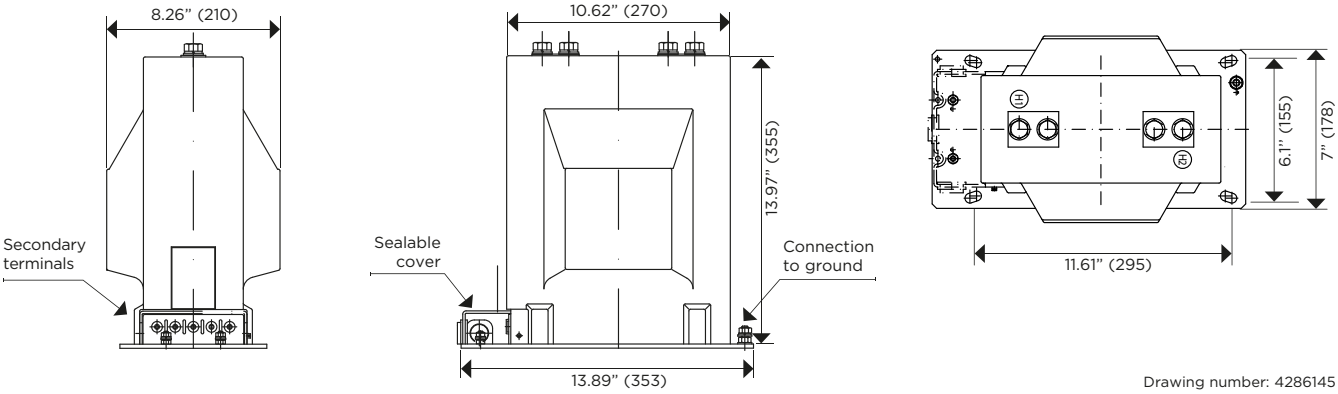
ARTECHE AC/CID Series are dry type indoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

UL Recognized Component File No.:E252140

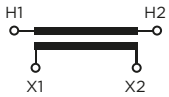
Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Resin	Gray	79.4



Drawing number: 4286145

MARKING (Single Primary Ratio)

ONE SECONDARY



Approximate dimensions in inches (mm).

ACF-36

34.5 kV CURRENT TRANSFORMER

Electrical characteristics

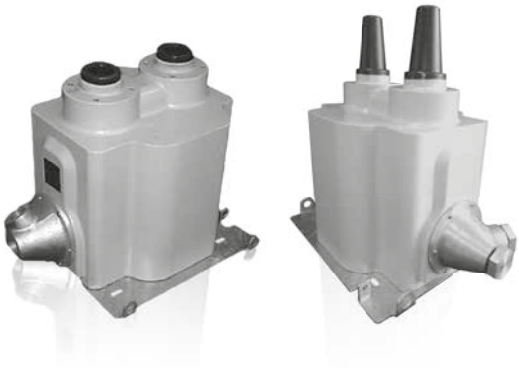
Code	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
751161001	5:5	1.2	0.5	1	0.3 B-1.8	C-100	34.5	200	70	2.5
751161002	10:5	1.2	1	2	0.3 B-1.8	C-100	34.5	200	70	2.5
751161003	15:5	1.2	1.5	3	0.3 B-1.8	C-100	34.5	200	70	2.5
751161004	20:5	1.2	2	4	0.3 B-1.8	C-100	34.5	200	70	2.5
751161005	25:5	1.2	2.5	5	0.3 B-1.8	C-100	34.5	200	70	2.5
751161006	30:5	1.2	3	6	0.3 B-1.8	C-100	34.5	200	70	2.5
751161008	40:5	1.2	4	8	0.3 B-1.8	C-100	34.5	200	70	2.5
751161010	50:5	1.2	5	10	0.3 B-1.8	C-100	34.5	200	70	2.5
751161015	75:5	1.2	7.5	15	0.3 B-1.8	C-100	34.5	200	70	2.5
751161020	100:5	1.2	10	20	0.3 B-1.8	C-100	34.5	200	70	2.5
751161030	150:5	1.2	15	30	0.3 B-1.8	C-100	34.5	200	70	2.5
751161040	200:5	1.2	20	40	0.3 B-1.8	C-100	34.5	200	70	2.5
751161060	300:5	1.2	30	60	0.3 B-1.8	C-100	34.5	200	70	2.5
751161080	400:5	1.2	40	80	0.3 B-1.8	C-100	34.5	200	70	2.5
751161120	600:5	1.2	50	95	0.3 B-1.8	C-100	34.5	200	70	2.5
751161160	800:5	1.2	60	120	0.3 B-1.8	C-100	34.5	200	70	2.5
751161200	1000:5	1.2	75	135	0.3 B-1.8	C-100	34.5	200	70	2.5
751161240	1200:5	1.2	84	150	0.3 B-1.8	C-200	34.5	200	70	2.5

Additional ratings available upon request.

Notes: .....

KCB-17

15 kV COMBINED TRANSFORMER



KCB 200 A KCB 600 A

INDOOR
60 Hertz

ARTECHE KCB series are dry type indoor service dead-front combination CT-PT

The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The entire surface of the transformer is coated with a conductive layer that is intended to be solidly grounded when energized. This allows for compact mounting inside switchgear or enclosures.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

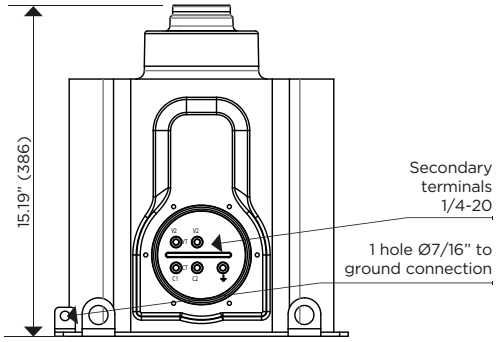
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

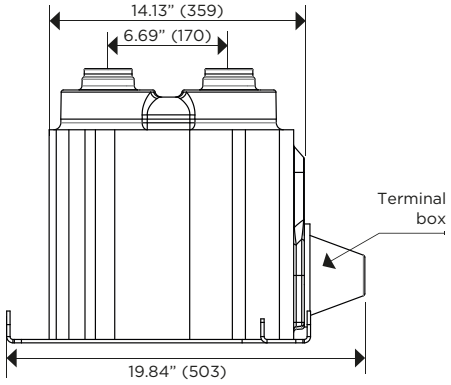
The primary terminals are standard 200 or 600 Ampere rated dead-front bushing well and can be connected using IEEE 368 standard inserts and elbow connectors.

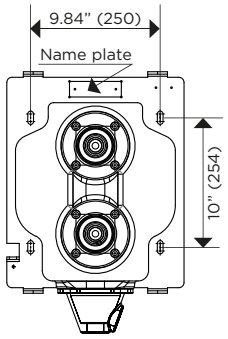
The secondary terminals are 1/4" slotted screws with flat and lock washers located inside a metallic terminal cover with two 1" NPT conduit hubs. The ground terminal is provided inside the terminal cover along with a manually operated CT secondary shorting device for safety purposes.

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Metallized resin	Gray	150

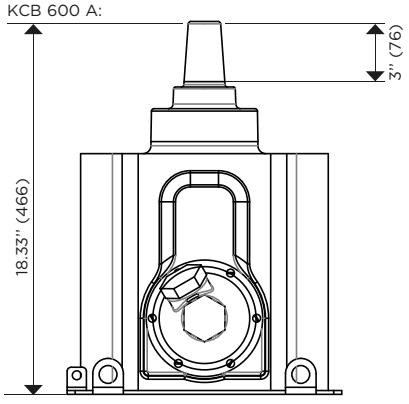
KCB 200 A:







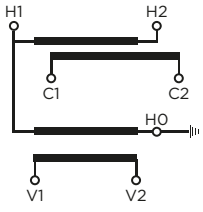
KCB 600 A:



Drawing number: 4286592 (200 A) / 4287655 (600 A)

MARKING (Single Primary Ratio)

ONE SECONDARY



Approximate dimensions in inches (mm).

KCB-17

15 kV COMBINED TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy [Current Transformer]	IEEE Metering Accuracy [Voltage Transformer]	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)		Primary Terminals
									Power frequency applied voltage test (kV rms)	Power frequency secondary applied voltage test (kV rms)	
770034011	5:5	2.0	0.5	1.25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	200 A Bushing Well Interface
770034021	10:5	2.0	1	2.5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	200 A Bushing Well Interface
770034031	15:5	2.0	1.5	3.75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	200 A Bushing Well Interface
770034041	20:5	2.0	2	5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	200 A Bushing Well Interface
770034051	25:5	2.0	2.5	6.25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	200 A Bushing Well Interface
770034061	30:5	2.0	3	7.5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	200 A Bushing Well Interface
770034081	40:5	2.0	4	10	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	200 A Bushing Well Interface
770034101	50:5	2.0	5	12.5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	200 A Bushing Well Interface
770034151	75:5	2.0	7.5	18.75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	200 A Bushing Well Interface
770034201	100:5	2.0	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	200 A Bushing Well Interface
770035301	150:5	1.33	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	200 A Bushing Well Interface
770035401	200:5	1.0	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	200 A Bushing Well Interface
770031131	300:5	1.5	30	75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	600 A Dead break Interface 15.2kV
770031141	400:5	1.5	40	100	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	600 A Dead break Interface 15.2kV
770031251	600:5	1.0	60	150	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	600 A Dead break Interface 15.2kV
770031101	100:5	2.0	10	25	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	200 A Bushing Well Interface
770031121	200:5	2.0	20	50	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	600 A Dead break Interface 15.2kV
770031151	600:5	1.0	48	120	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	15	95	34	2.5	600 A Dead break Interface 15.2kV

* Accuracy range: 1% to RF

Voltage Ratings

VT Ratio	Primary (V)	Secondary (V)	Thermal Burden (VA)	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30s (Un)
60:1	7200/12470GY	120	750	1.1	1.25

Additional VT ratios are available. Please contact Arteche for details.

Notes:

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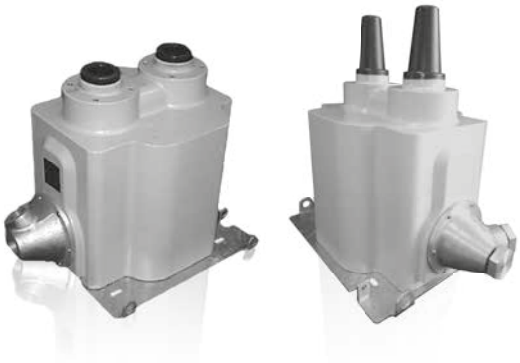
KCB-24

25 kV COMBINED TRANSFORMER



KCB 200 A KCB 600 A

INDOOR
60 Hertz

ARTECHE KCB series are dry type indoor service dead-front combination CT-PT.

The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The entire surface of the transformer is coated with a conductive layer that is intended to be solidly grounded when energized. This allows for compact mounting inside switchgear or enclosures.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

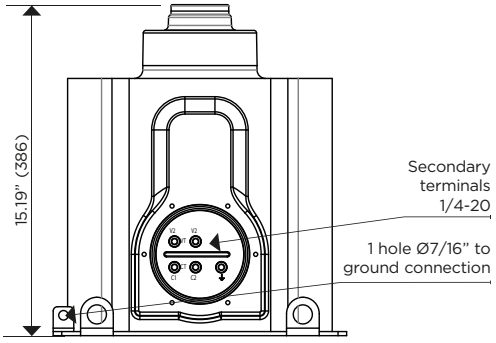
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

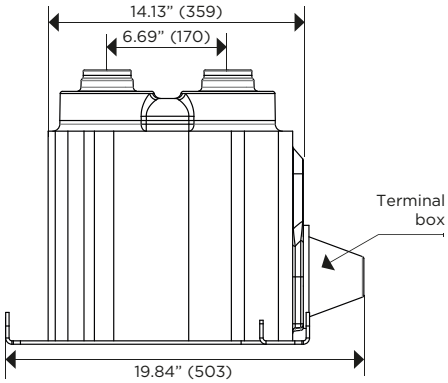
The primary terminals are standard 200 or 600 Ampere rated dead-front bushing well and can be connected using IEEE 368 standard inserts and elbow connectors.

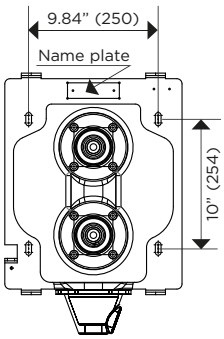
The secondary terminals are 1/4" slotted screws with flat and lock washers located inside a metallic terminal cover with two 1" NPT conduit hubs. The ground terminal is provided inside the terminal cover along with a manually operated CT secondary shorting device for safety purposes.

Mechanical characteristics		
Insulation Material	Colors	Weight (lbs.)
Metallized resin	Gray	150

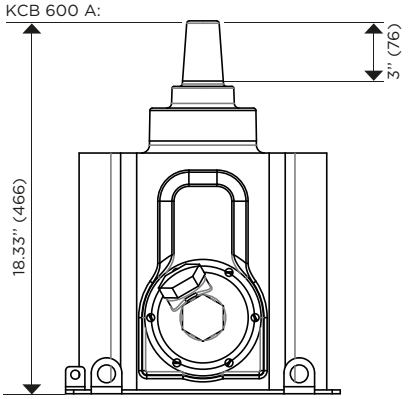
KCB 200 A:





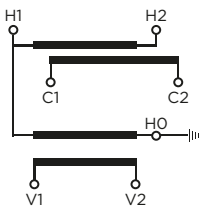


KCB 600 A:



Drawing number: 9449854 (200 A) / 4287736 (600 A)

MARKING (Single Primary Ratio)	ONE SECONDARY



Approximate dimensions in inches (mm).

KCB-24

25 kV COMBINED TRANSFORMER

Electrical characteristics

Code	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy [Current Transformer]	IEEE Metering Accuracy [Voltage Transformer]	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)		Primary Terminals
									Power frequency applied voltage test (kV rms)	Power frequency secondary applied voltage test (kV rms)	
770104016	5:5	2.0	0.5	1.25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770104026	10:5	2.0	1	2.5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770104036	15:5	2.0	1.5	3.75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770104046	20:5	2.0	2	5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770104056	25:5	2.0	2.5	6.25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770104066	30:5	2.0	3	7.5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770104086	40:5	2.0	4	10	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770104106	50:5	2.0	5	12.5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770104156	75:5	2.0	7.5	18.75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770104206	100:5	2.0	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770105306	150:5	1.33	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770105406	200:5	1.0	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770101136	300:5	1.5	30	75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	600 A Dead break Interface 21.1kV
770101146	400:5	1.5	40	100	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	600 A Dead break Interface 21.1kV
770101256	600:5	1.0	60	150	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	600 A Dead break Interface 21.1kV
770101106	100:5	2.0	10	25	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770101126	200:5	2.0	20	50	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	600 A Dead break Interface 21.1kV
770101156	600:5	1.0	48	120	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	600 A Dead break Interface 21.1kV

* Accuracy range: 1% to RF

Voltage Ratings

VT Ratio	Primary (V)	Secondary (V)	Thermal Burden (VA)	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30s (Un)
120:1	14400/24940GY	120	750	1.1	1.25

Additional VT ratios are available. Please contact Arteche for details.

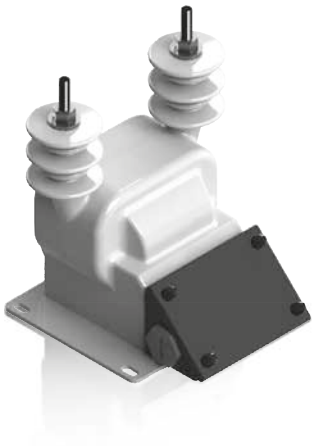
Notes:

arteche

5 kV – 69 kV OUTDOOR INSTRUMENT TRANSFORMERS & METERING UNITS

VRL-7

5 kV VOLTAGE TRANSFORMER



OUTDOOR
60 Hertz

ARTECHE VRL/URL-7 series are dry type outdoor service voltage transformers.

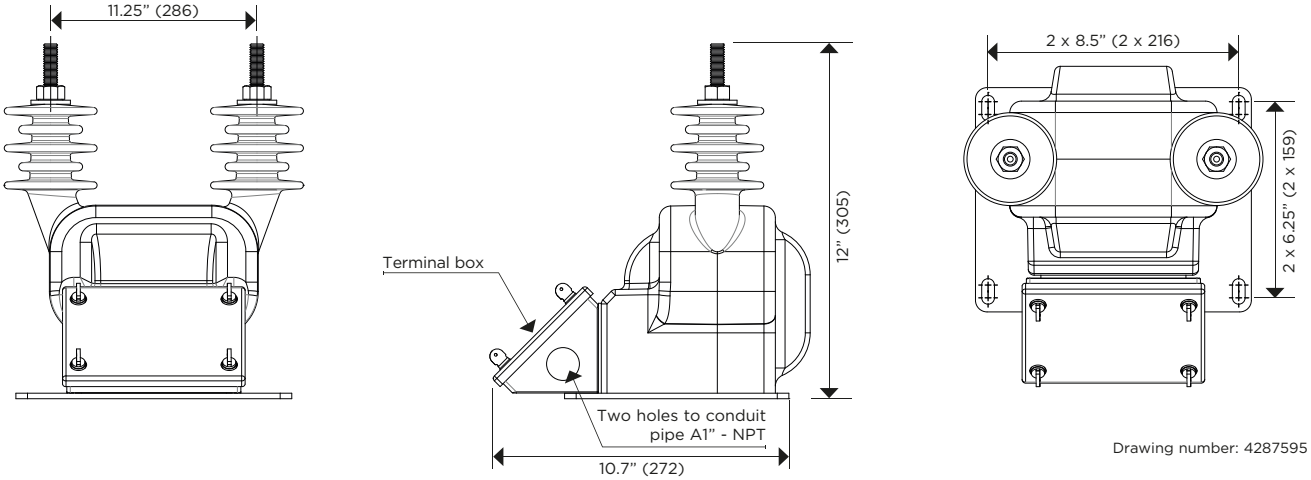
The core and coils are encapsulated with Cycloaliphatic Epoxy Resin (CEP) which provides excellent dielectric properties, mechanical strength, resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life.
URL-7/VRL-7 family can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which additionally increases the transformer's weatherability and offers better performance in heavily polluted environments. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.
Partial Discharge measurements exceed the IEEE requirements.

This voltage transformer is designed for mounting on poles or substation structures in an upright, underhung or cantilever position.

Mechanical characteristics

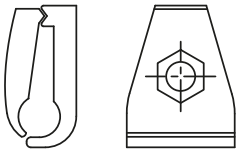
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	40	15.8	3



Drawing number: 4287595

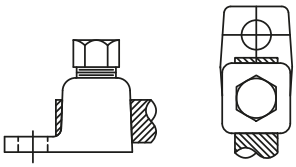
CONNECTIONS

PRIMARY TERMINAL



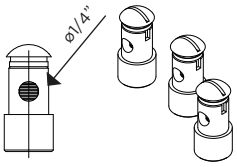
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

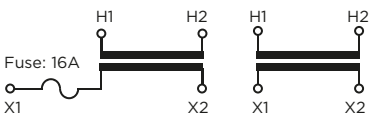
SECONDARY TERMINAL



Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY



Approximate dimensions in inches (mm).

VRL-7

5 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Highest Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
With FUSE in the secondary box												
757091020	757090000-H	20:1	2400/4160Y	120	0.3 W,X,M,Y	1.1	1.5	1000	5	60	19	2.5
757091035	757090001-H	35:1	4200/4200Y	120	0.3 W,X,M,Y	1.1	1.5	1000	5	60	19	2.5
757091040	757090002-H	40:1	4800/4800Y	120	0.3 W,X,M,Y	1.1	1.5	1000	5	60	19	2.5
Without FUSE in the secondary box												
757090020	757090010-H	20:1	2400/4160Y	120	0.3 W,X,M,Y	1.1	1.5	1000	5	60	19	2.5
757090035	757090011-H	35:1	4200/4200Y	120	0.3 W,X,M,Y	1.1	1.5	1000	5	60	19	2.5
757090040	757090012-H	40:1	4800/4800Y	120	0.3 W,X,M,Y	1.1	1.5	1000	5	60	19	2.5

Additional ratings available upon request.

Notes: .....

URJR-17

15 kV VOLTAGE TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE URJR/VRJR series are dry type outdoor service voltage transformers.

The core and coils are encapsulated with Cycloaliphatic Epoxy Resin (CEP) which provides excellent dielectric properties, mechanical strength, resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life.

URJR/VRJR family can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which additionally increases the transformer's weatherability and offers better performance in heavily polluted environments. The transformer is maintenance free.

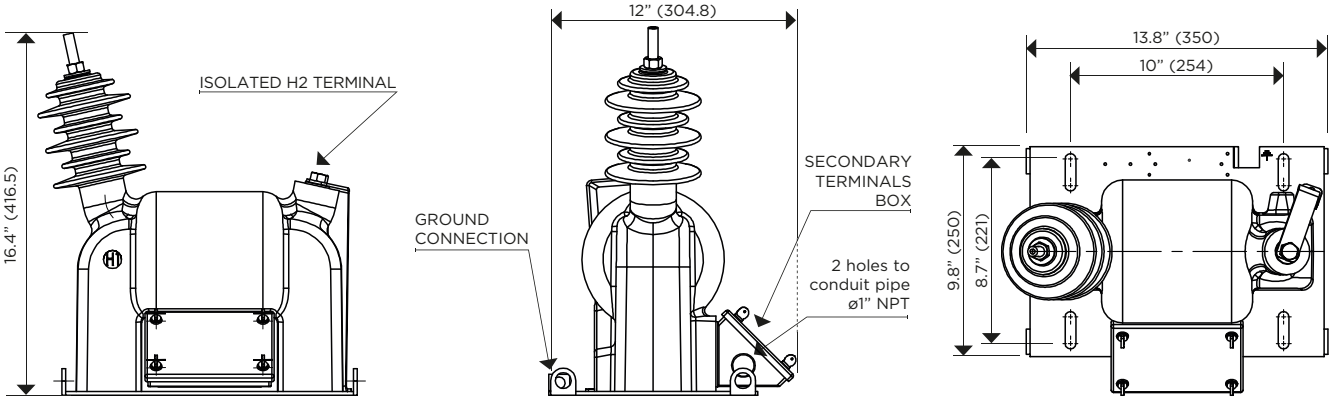
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE requirements.

This voltage transformer is designed for mounting on poles or substation structures in an upright, underhung or cantilever position.

Mechanical characteristics

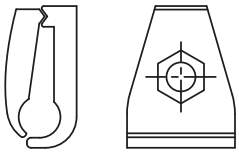
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	68.5	25.75	11.5



Drawing number: 4288685

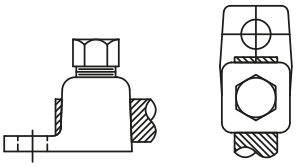
CONNECTIONS

PRIMARY TERMINAL



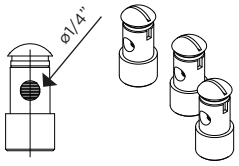
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

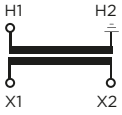
SECONDARY TERMINAL



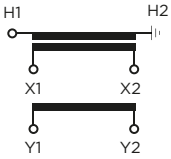
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY



TWO SECONDARIES



Approximate dimensions in inches (mm).

URJR-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power frequency applied voltage test (kV rms)	Power frequency secondary applied voltage test (kV rms)
757320001	757320009-H	60:1	7200/12470GY	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757320002	757320010-H	63.5:1	7620/13200GY	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757320003	757320011-H	63.5:1 & 63.5:1	7620/7620	120 & 120	0.3 W,X,M,Y*	1.1	1.25	500 & 500	15	110	34	2.5
757320004	757320012-H	70:1	8400/14400GY	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757320005	757320013-H	60:1	7200/12470GY	120	0.15 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5
757320006	757320014-H	63.5:1	7620/13200GY	120	0.15 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5
757320007	757320015-H	63.5:1 & 63.5:1	7620/7620	120 & 120	0.15 W,X,M*	1.1	1.25	500 & 500	15	110	34	2.5
757320008	757320016-H	70:1	8400/14400GY	120	0.15 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5

*The burden on any two secondary terminals affects the accuracy on all other terminals. The burden stated in the accuracy ratings is the total burden on the transformer. The accuracy class shall apply with the burden divided between the secondary outputs in any manner, unless otherwise specified in detail.

Additional ratings available upon request.

Notes: .....

URJ-17

15 kV VOLTAGE TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

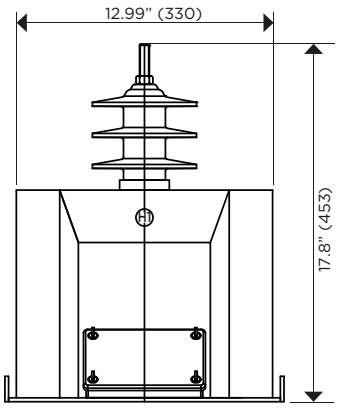
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

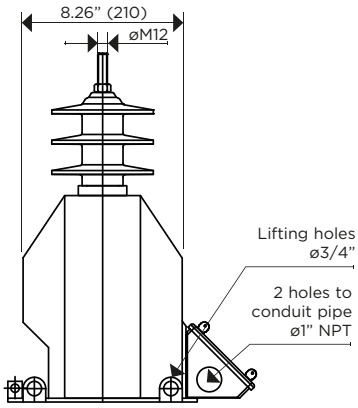
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

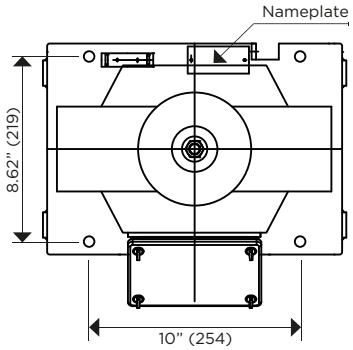
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	94.6	21.45/25⁺	11.61/12.5⁺



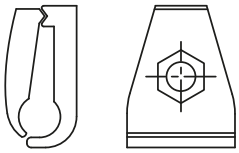




Drawing number:
Fused: 4286572 / 4286596⁺
Unfused: 4286820

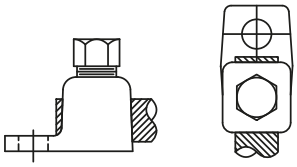
CONNECTIONS

PRIMARY TERMINAL



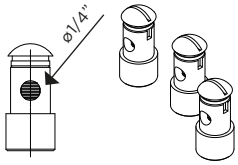
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

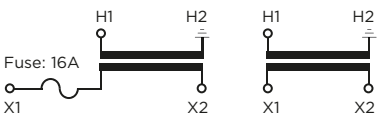
SECONDARY TERMINAL



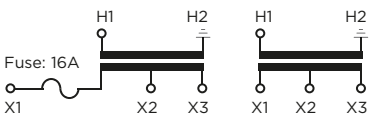
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY



ONE SECONDARY WITH TAP



Approximate dimensions in inches (mm).

URJ-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
With FUSE in the secondary box												
757061020	757060010-H	20:1	2400/4156GY	120	0.3 W,X,M,Y	1.1	1.5	750	5	60	19	2.5
757063060	757060030-H	20/60:1	2400/4156GY & 7200/12470GY	120	0.3 W,X / 0.3 W,X,M,Y	1.1	1.5	750	15	110	34	2.5
757061060	757060011-H	60:1	7200/12470GY	120	0.3 W,X,M,Y	1.1	1.5	750	15	110	34	2.5
757061063	757060012-H	63.5:1	7620/13200GY	120	0.3 W,X,M,Y	1.1	1.5	750	15	110	34	2.5
757061070	757060013-H	70:1	8400/14550GY	120	0.3 W,X,M,Y	1.1	1.5	750	15	110	34	2.5
757065020	757060050-H	20:1	2400/4156GY	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	5	60	19	2.5
757066060	757060080-H	20/60:1	2400/4156GY & 7200/12470GY	120	0.3 W,X / 0.3 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5
757065060	757060051-H	60:1	7200/12470GY	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757065063	757060052-H	63.5:1	7620/13200GY	120	0.3 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5
757065070	757060053-H	70:1	8400/14550GY	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757067020⁺	757060081-H	20:1	2400/4156GY	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	5	60	19	2.5
757068020⁺	757060082-H	20/60:1	2400/4156GY & 7200/12470GY	120	0.3 W,X / 0.3 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5
757067060⁺	757060083-H	60:1	7200/12470GY	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757067063⁺	757060084-H	63.5:1	7620/13200GY	120	0.3 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5
757067070⁺	757060085-H	70:1	8400/14550GY	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
Without FUSE in the secondary box												
757064020	757060040-H	20:1	2400/4156GY	120	0.3 W,X,M,Y	1.1	1.5	750	5	60	19	2.5
757064060	757060041-H	60:1	7200/12470GY	120	0.3 W,X,M,Y	1.1	1.5	750	15	110	34	2.5
757064063	757060042-H	63.5:1	7620/13200GY	120	0.3 W,X,M,Y	1.1	1.5	750	15	110	34	2.5
757064070	757060043-H	70:1	8400/14550GY	120	0.3 W,X,M,Y	1.1	1.5	750	15	110	34	2.5
757060020	757060000-H	20:1	2400/4156GY	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	5	60	19	2.5
757060060	757060001-H	60:1	7200/12470GY	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757060063	757060002-H	63.5:1	7620/13200GY	120	0.3 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5
757060070	757060003-H	70:1	8400/14550GY	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5

Additional ratings available upon request.
⁺ Extended creepage distance.

Notes: .....

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URL-17

15 kV VOLTAGE TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

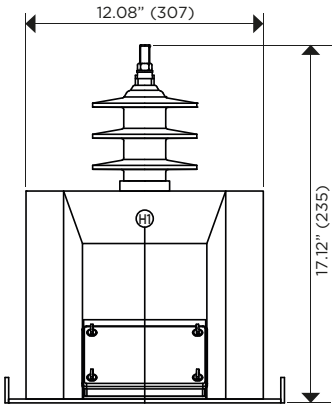
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

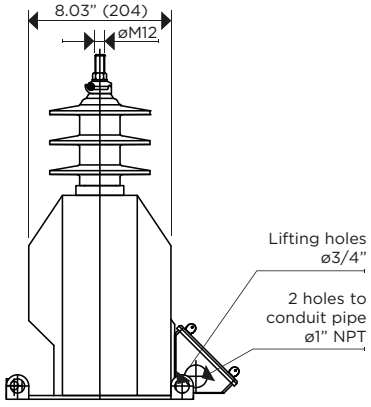
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

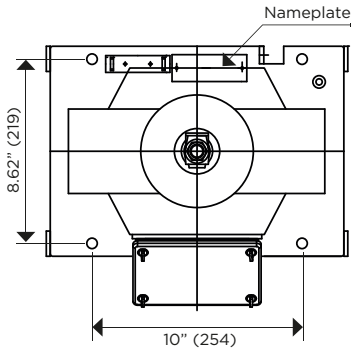
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	80	21.65	12.2

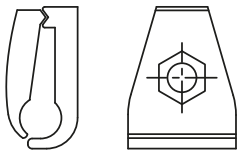
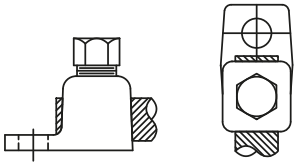
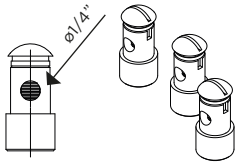






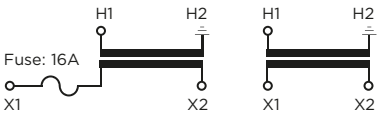
Drawing number:
Fused: 4286570
Unfused: 4286769

CONNECTIONS

PRIMARY TERMINAL	GROUND TERMINAL	SECONDARY TERMINAL
		
Type: TE-4T Material: Copper Range: 8SOL-4TRE	Type: TE-12-250 Material: Copper Range: 4TRE-250MCM	Type: Quick Connector Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY



FUSED UNFUSED

Approximate dimensions in inches (mm).

URL-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
With FUSE in the secondary box												
757031020	757030000-H	20:1	2400/4160GY	120	0.3 W,X,M,Y	1.1	1.5	500	5	60	19	2.5
757031035	757030001-H	35:1	4200/7280GY	120	0.3 W,X,M,Y	1.1	1.5	500	5	60	19	2.5
757031040	757030002-H	40:1	4200/4200GY	120	0.3 W,X,M,Y	1.1	1.5	500	5	60	19	2.5
757031042	757030003-H	42:1	5040/8730GY	120	0.3 W,X,M,Y	1.1	1.5	500	8.7	75	26	2.5
757031060	757030004-H	60:1	7200/12470GY	120	0.3 W,X,M,Y	1.1	1.5	500	15	110	34	2.5
757031063	757030005-H	63.5:1	7620/13200GY	120	0.3 W,X,M,Y	1.1	1.5	500	15	110	34	2.5
757031066	757030006-H	66.4:1	7968/13800GY	120	0.3 W,X,M,Y	1.1	1.5	500	15	110	34	2.5
757031067	757030007-H	66.67:1	8000/13856GY	120	0.3 W,X,M,Y	1.1	1.5	500	15	110	34	2.5
757031070	757030008-H	70:1	8400/14550GY	120	0.3 W,X,M,Y	1.1	1.5	500	15	110	34	2.5
757035020	757030071-H	20:1	2400/4160GY	120	0.3 W,X,M,Y	1.1	1.25	750	5	60	19	2.5
757035035	757030072-H	35:1	4200/7280GY	120	0.3 W,X,M,Y	1.1	1.25	750	5	60	19	2.5
757035040	757030073-H	40:1	4200/4200GY	120	0.3 W,X,M,Y	1.1	1.25	750	5	60	19	2.5
757035042	757030074-H	42:1	5040/8730GY	120	0.3 W,X,M,Y	1.1	1.25	750	8.7	75	26	2.5
757035060	757030075-H	60:1	7200/12470GY	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757035063	757030076-H	63.5:1	7620/13200GY	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757035066	757030077-H	66.4:1	7968/13800GY	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757035067	757030078-H	66.67:1	8000/13856GY	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757035070	757030079-H	70:1	8400/14550GY	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
Without FUSE in the secondary box												
757034020	757030091-H	20:1	2400/4160GY	120	0.3 W,X,M,Y	1.1	1.5	500	5	60	19	2.5
757034035	757030092-H	35:1	4200/7280GY	120	0.3 W,X,M,Y	1.1	1.5	500	5	60	19	2.5
757034040	757030093-H	40:1	4200/4200GY	120	0.3 W,X,M,Y	1.1	1.5	500	5	60	19	2.5
757034042	757030094-H	42:1	5040/8730GY	120	0.3 W,X,M,Y	1.1	1.5	500	8.7	75	26	2.5
757034060	757030095-H	60:1	7200/12470GY	120	0.3 W,X,M,Y	1.1	1.5	500	15	110	34	2.5
757034063	757030096-H	63.5:1	7620/13200GY	120	0.3 W,X,M,Y	1.1	1.5	500	15	110	34	2.5
757034066	757030097-H	66.4:1	7968/13800GY	120	0.3 W,X,M,Y	1.1	1.5	500	15	110	34	2.5
757034067	757030098-H	66.67:1	8000/13856GY	120	0.3 W,X,M,Y	1.1	1.5	500	15	110	34	2.5
757034070	757030099-H	70:1	8400/14550GY	120	0.3 W,X,M,Y	1.1	1.5	500	15	110	34	2.5
757030020	757030111-H	20:1	2400/4160GY	120	0.3 W,X,M,Y	1.1	1.25	750	5	60	19	2.5
757030035	757030112-H	35:1	4200/7280GY	120	0.3 W,X,M,Y	1.1	1.25	750	5	60	19	2.5
757030040	757030113-H	40:1	4200/4200GY	120	0.3 W,X,M,Y	1.1	1.25	750	5	60	19	2.5
757030042	757030114-H	42:1	5040/8730GY	120	0.3 W,X,M,Y	1.1	1.25	750	8.7	75	26	2.5
757030060	757030115-H	60:1	7200/12470GY	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757030063	757030116-H	63.5:1	7620/13200GY	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757030066	757030117-H	66.4:1	7968/13800GY	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757030067	757030118-H	66.67:1	8000/13856GY	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757030070	757030119-H	70:1	8400/14550GY	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5

Additional ratings available upon request.

Notes: .....

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URN-17

15 kV VOLTAGE TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

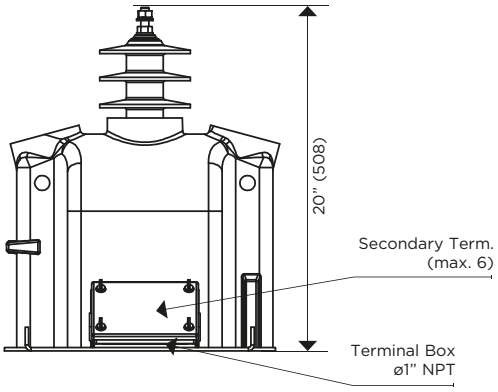
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

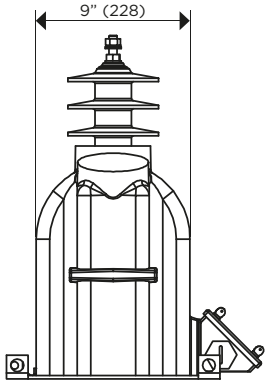
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

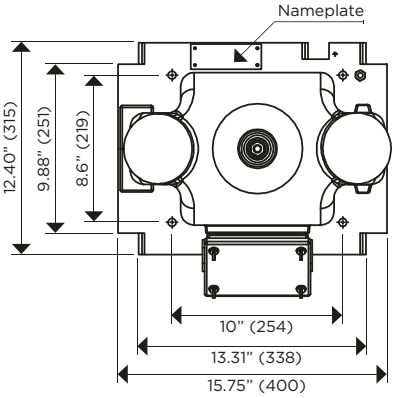
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	132	21.6	13.9



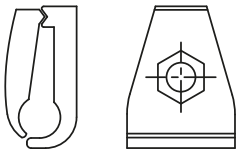




Drawing number:
Fused: 4288939 | Unfused: 4288802

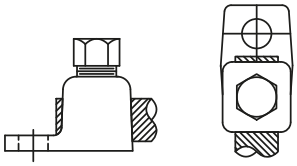
CONNECTIONS

PRIMARY TERMINAL



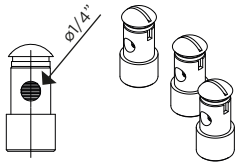
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

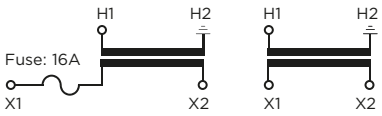
SECONDARY TERMINAL



Type: Quick Connector
Material: Brass

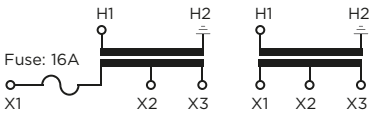
MARKING (Single Primary Ratio)

SINGLE SECONDARY



FUSED UNFUSED

ONE SECONDARY WITH TAP



FUSED UNFUSED

Approximate dimensions in inches (mm).

URN-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
With FUSE in the secondary box												
757393060	757390010-H	20/60:1	2400/4156GY & 7200/12470GY	120	0.3 W,X/ 0.3 W,X,M,Y	1.1	1.5	1000	15	110	34	2.5
757393113	757390011-H	66.26/112.88:1	7620/13200GY	115/67.5	0.3 W,X,M,Y/ 0.6 W,X,M,Y	1.1	1.5	1000	15	110	34	2.5
757396060	757390030-H	20/60:1	2400/4156GY & 7200/12470GY	120	0.3 W,X/ 0.3 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5
757396113	757390031-H	66.26/112.88:1	7620/13200GY	115/67.5	0.3 W,X,M,Y/ 0.6 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5
Without FUSE in the secondary box												
757394060	757390020-H	20/60:1	2400/4156GY & 7200/12470GY	120	0.3 W,X/ 0.3 W,X,M,Y	1.1	1.5	1000	15	110	34	2.5
757394113	757390021-H	66.26/112.88:1	7620/13200GY	115/67.5	0.3 W,X,M,Y/ 0.6 W,X,M,Y	1.1	1.5	1000	15	110	34	2.5
757398060	757390000-H	20/60:1	2400/4156GY & 7200/12470GY	120	0.3 W,X/ 0.3 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5
757398113	757390001-H	66.26/112.88:1	7620/13200GY	115/67.5	0.3 W,X,M,Y/ 0.6 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5

Additional ratings available upon request.

Notes: .....

VRJR-17

15 kV VOLTAGE TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE URJR/VRJR series are dry type outdoor service voltage transformers.

The core and coils are encapsulated with Cycloaliphatic Epoxy Resin (CEP) which provides excellent dielectric properties, mechanical strength, resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life.

URJR/VRJR family can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which additionally increases the transformer's weatherability and offers better performance in heavily polluted environments. The transformer is maintenance free.

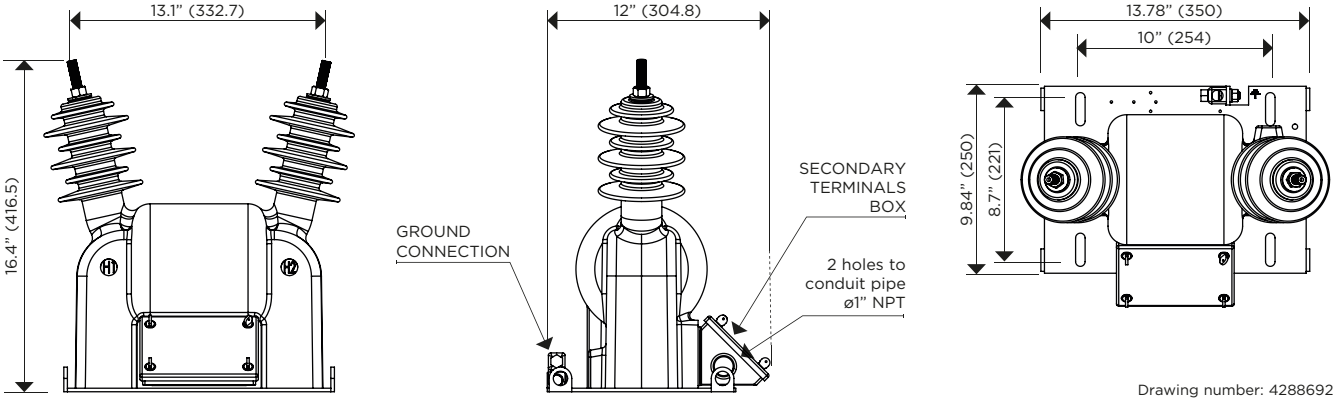
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE requirements.

This voltage transformer is designed for mounting on poles or substation structures in an upright, underhung or cantiliver position.

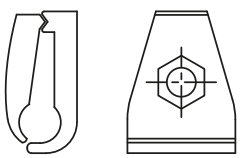
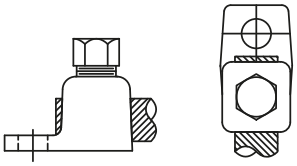
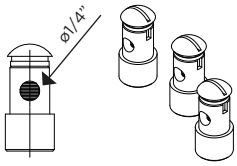
Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	70.5	25.7	11.5

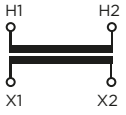
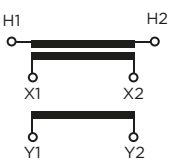


Drawing number: 4288692

CONNECTIONS

PRIMARY TERMINAL	GROUND TERMINAL	SECONDARY TERMINAL
		
Type: TE-4T Material: Copper Range: 8SOL-4TRE	Type: TE-12-250 Material: Copper Range: 4TRE-250MCM	Type: Quick Connector Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY	TWO SECONDARIES
	

Approximate dimensions in inches (mm).

VRJR-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power frequency applied voltage test (kV rms)	Power frequency secondary applied voltage test (kV rms)
757310001	757310019-H	60:1	7200/12470Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757310002	757310020-H	60:1 & 60:1	7200/12470Y	120 & 120	0.3 W,X,M,Y*	1.1	1.25	500 & 500	15	110	34	2.5
757310003	757310021-H	63.5:1	7620/13200Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757310004	757310022-H	70:1	8400/14400Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757310005	757310023-H	70:1 & 70:1	8400/14400Y	120 & 120	0.3 W,X,M,Y*	1.1	1.25	500 & 500	15	110	34	2.5
757310006	757310024-H	100:1	12000/12000Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757310007	757310025-H	110:1	13200/13200Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757310008	757310026-H	120:1	14400/14400Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757310009	757310027-H	120:1 & 120:1	14400/14400Y	120 & 120	0.3 W,X,M,Y*	1.1	1.25	500 & 500	15	110	34	2.5
757310010	757310028-H	60:1	7200/12470Y	120	0.15 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5
757310011	757310029-H	60:1 & 60:1	7200/12470Y	120 & 120	0.15 W,X,M*	1.1	1.25	500 & 500	15	110	34	2.5
757310012	757310030-H	63.5:1	7620/13200Y	120	0.15 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5
757310013	757310031-H	70:1	8400/14400Y	120	0.15 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5
757310014	757310032-H	70:1 & 70:1	8400/14400Y	120 & 120	0.15 W,X,M*	1.1	1.25	500 & 500	15	110	34	2.5
757310015	757310033-H	100:1	12000/12000Y	120	0.15 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5
757310016	757310034-H	110:1	13200/13200Y	120	0.15 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5
757310017	757310035-H	120:1	14400/14400Y	120	0.15 W,X,M,Y	1.1	1.25	1500	15	110	34	2.5
757310018	757310036-H	120:1 & 120:1	14400/14400Y	120 & 120	0.15 W,X,M*	1.1	1.25	500 & 500	15	110	34	2.5

*The burden on any two secondary terminals affects the accuracy on all other terminals. The burden stated in the accuracy ratings is the total burden on the transformer. The accuracy class shall apply with the burden divided between the secondary outputs in any manner, unless otherwise specified in detail.

Additional ratings available upon request.

Notes: .....

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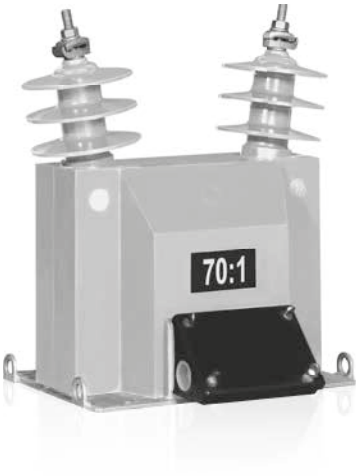
VRJ-17

15 kV VOLTAGE TRANSFORMER



OUTDOOR
60 Hertz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

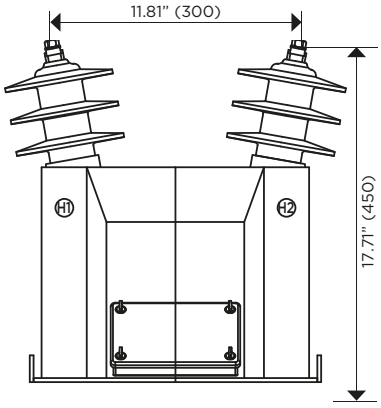
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

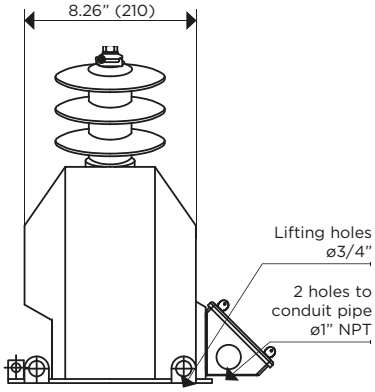
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

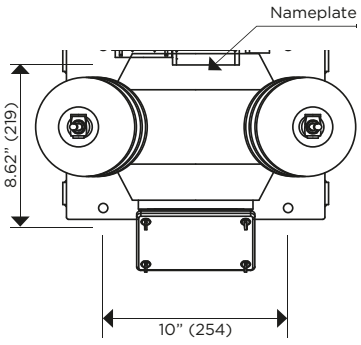
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	97	21.2	10.82



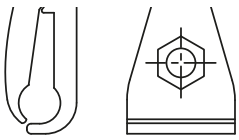




Drawing number:
Fused: 4286571
Unfused: 4286770

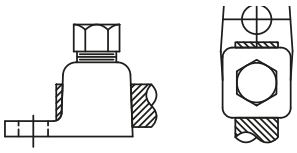
CONNECTIONS

PRIMARY TERMINAL



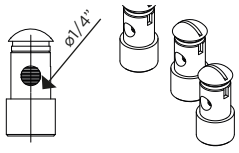
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

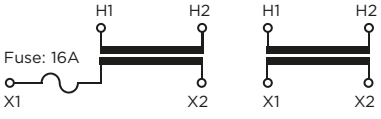
SECONDARY TERMINAL



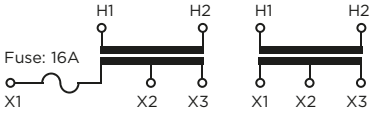
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY



ONE SECONDARY WITH TAP



Approximate dimensions in inches (mm).

VRJ-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
With FUSE in the secondary box												
757121020	757120080-H	20:1	2400/4160Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757121030	757120081-H	30:1	3600/3600Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757121035	757120082-H	35:1	4200/4200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757121040	757120083-H	40:1	4800/4800Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757121060	757120084-H	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757121063	757120085-H	63.5:1	7620/13200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757121070	757120086-H	70:1	8400/14550Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757123121	757120130-H	70/121.21:1	8400/14550Y & 14545/14545Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757121100	757120087-H	100:1	12000/12000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757121110	757120088-H	110:1	13200/13200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757121120	757120089-H	120:1	14400/14400Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757129070	757120190-H	70:1	8400/14550Y	120	0.15 W,X	1.1	1.25	1000	15	110	34	2.5
757129100	757120191-H	100:1	12000/12000Y	120	0.15 W,X	1.1	1.25	1000	15	110	34	2.5
757129110	757120192-H	110:1	13200/13200Y	120	0.15 W,X	1.1	1.25	1000	15	110	34	2.5
757129120	757120193-H	120:1	14400/14400Y	120	0.15 W,X	1.1	1.25	1000	15	110	34	2.5
757125020	757120160-H	20:1	2400/4160Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757125030	757120161-H	30:1	3600/3600Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757125035	757120162-H	35:1	4200/4200Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757125040	757120163-H	40:1	4800/4800Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757125060	757120164-H	60:1	7200/12470Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757125063	757120165-H	63.5:1	7620/13200Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757125070	757120166-H	70:1	8400/14550Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757126121	757120180-H	70/121.21:1	8400/14550Y & 14545/14545Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757125100	757120167-H	100:1	12000/12000Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757125110	757120168-H	110:1	13200/13200Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757125120	757120169-H	120:1	14400/14400Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757126070	757120181-H	70:1	8400/14550Y	120	0.15 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757126100	757120182-H	100:1	12000/12000Y	120	0.15 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757126110	757120183-H	110:1	13200/13200Y	120	0.15 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757126120	757120184-H	120:1	14400/14400Y	120	0.15 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5

VRJ-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Without FUSE in the secondary box												
757124020	757120140-H	20:1	2400/4160Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757124030	757120141-H	30:1	3600/3600Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757124035	757120142-H	35:1	4200/4200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757124040	757120143-H	40:1	4800/4800Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757124060	757120144-H	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757124063	757120145-H	63.5:1	7620/13200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757124070	757120146-H	70:1	8400/14550Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757124100	757120147-H	100:1	12000/12000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757124110	757120148-H	110:1	13200/13200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757124120	757120149-H	120:1	14400/14400Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757120020	757120000-H	20:1	2400/4160Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757120030	757120001-H	30:1	3600/3600Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757120035	757120002-H	35:1	4200/4200Y	120	0.3 W,X,M,Y.Z	1.1	1.25	1500	15	110	34	2.5
757120040	757120003-H	40:1	4800/4800Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757120060	757120004-H	60:1	7200/12470Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757120063	757120005-H	63.5:1	7620/13200Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757120070	757120006-H	70:1	8400/14550Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757120100	757120007-H	100:1	12000/12000Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757120110	757120008-H	110:1	13200/13200Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757120120	757120009-H	120:1	14400/14400Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5

Additional ratings available upon request.

VRJ-17

15 kV VOLTAGE TRANSFORMER

Notes:

VRL-17

15 kV VOLTAGE TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

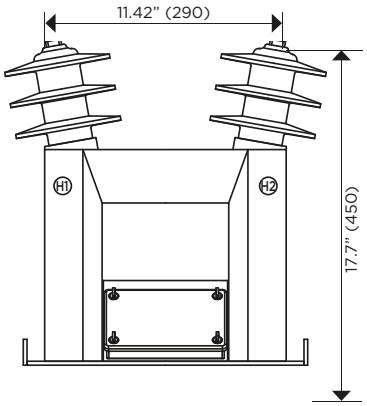
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

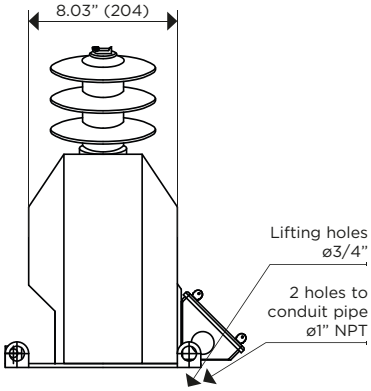
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

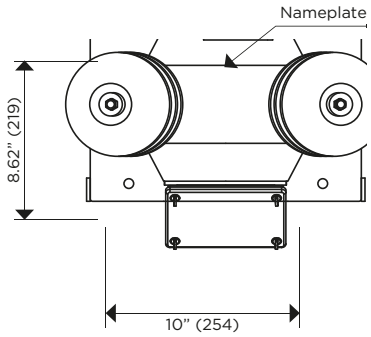
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	83.7	21.2	10.23



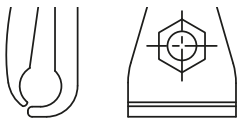




Drawing number:
Fused: 4286569
Unfused: 4286774

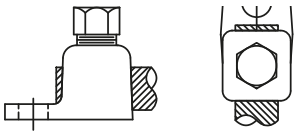
CONNECTIONS

PRIMARY TERMINAL



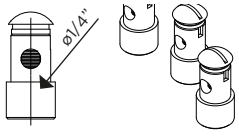
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

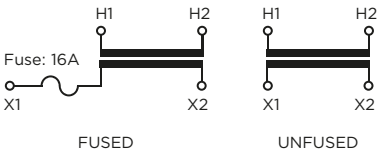
SECONDARY TERMINAL



Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY



FUSED UNFUSED

Approximate dimensions in inches (mm).

VRL-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
With FUSE in the secondary box												
757021020	757020000-H	20:1	2400/4160Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757021035	757020001-H	35:1	4200/4200Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757021040	757020002-H	40:1	4800/4800Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757021042	757020003-H	42:1	5040/5040Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757021060	757020004-H	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757021063	757020005-H	63.5:1	7620/13200Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757021066	757020006-H	66:1	7920/13700Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757021070	757020007-H	70:1	8400/14550Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757021100	757020008-H	100:1	12000/12000Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757021110	757020009-H	110:1	13200/13200Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757021115	757020010-H	115:1	13800/13800Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757021120	757020011-H	120:1	14400/14400Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757025020	757020130-H	20:1	2400/4160Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757025035	757020131-H	35:1	4200/4200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757025040	757020132-H	40:1	4800/4800Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757025042	757020133-H	42:1	5040/5040Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757025060	757020134-H	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757025063	757020135-H	63.5:1	7620/13200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757025066	757020136-H	66:1	7920/13700Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757025070	757020137-H	70:1	8400/14550Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757025100	757020138-H	100:1	12000/12000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757025110	757020139-H	110:1	13200/13200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757025115	757020140-H	115:1	13800/13800Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757025120	757020141-H	120:1	14400/14400Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5

VRL-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Without FUSE in the secondary box												
757024020	757020150-H	20:1	2400/4160Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757024035	757020151-H	35:1	4200/4200Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757024040	757020152-H	40:1	4800/4800Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757024042	757020153-H	42:1	5040/5040Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757024060	757020154-H	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757024063	757020155-H	63.5:1	7620/13200Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757024066	757020156-H	66:1	7920/13700Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757024070	757020157-H	70:1	8400/14550Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757024100	757020158-H	100:1	12000/12000Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757024110	757020159-H	110:1	13200/13200Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757024115	757020160-H	115:1	13800/13800Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757024120	757020161-H	120:1	14400/14400Y	120	0.3 W,X,M,Y	1.1	1.25	750	15	110	34	2.5
757020020	757020170-H	20:1	2400/4160Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757020035	757020171-H	35:1	4200/4200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757020040	757020172-H	40:1	4800/4800Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757020042	757020173-H	42:1	5040/5040Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757020060	757020174-H	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757020063	757020175-H	63.5:1	7620/13200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757020066	757020176-H	66:1	7920/13700Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757020070	757020177-H	70:1	8400/14550Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757020100	757020178-H	100:1	12000/12000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757020110	757020179-H	110:1	13200/13200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757020115	757020180-H	115:1	13800/13800Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757020120	757020181-H	120:1	14400/14400Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5

Additional ratings available upon request.

VRL-17

15 kV VOLTAGE TRANSFORMER

Notes:

VRN-17

15 kV VOLTAGE TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

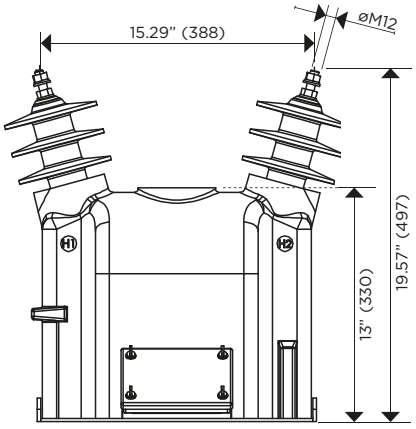
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

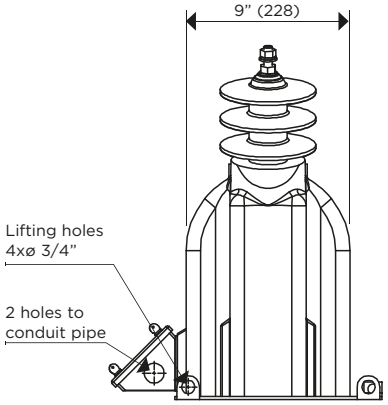
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

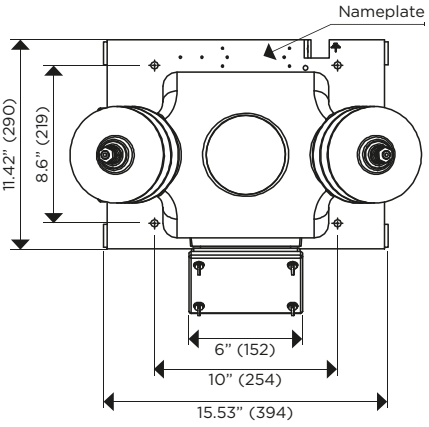
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	136.4	21.2	8.8



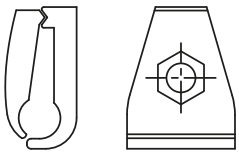




Drawing number:
Fused: 4289005 | Unfused: 4288513

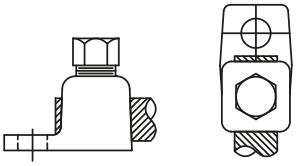
CONNECTIONS

PRIMARY TERMINAL



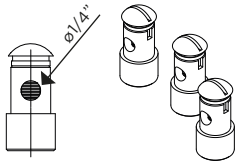
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

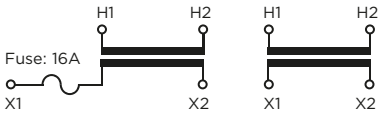
SECONDARY TERMINAL



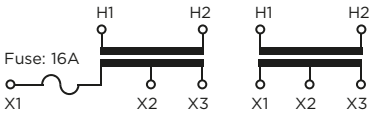
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY



ONE SECONDARY WITH TAP



Approximate dimensions in inches (mm).

VRN-17

15 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
With FUSE in the secondary box												
757101020	757100080-H	20:1	2400/4160Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757101030	757100081-H	30:1	3600/3600Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757101035	757100082-H	35:1	4200/4200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757101040	757100083-H	40:1	4800/4800Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757101060	757100084-H	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757101063	757100085-H	63.5:1	7620/13200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757101070	757100086-H	70:1	8400/14550Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757103121	757100130-H	70/121.2:1	8400/14550Y & 14545/14545Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757101100	757100087-H	100:1	12000/12000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757101110	757100088-H	110:1	13200/13200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757101120	757100089-H	120:1	14400/14400Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757105020	757100160-H	20:1	2400/4160Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757105030	757100161-H	30:1	3600/3600Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757105035	757100162-H	35:1	4200/4200Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757105040	757100163-H	40:1	4800/4800Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757105060	757100164-H	60:1	7200/12470Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757105063	757100165-H	63.5:1	7620/13200Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757105070	757100166-H	70:1	8400/14550Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757106121	757100180-H	70/121.2:1	8400/14550Y & 14545/14545Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757105100	757100167-H	100:1	12000/12000Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757105110	757100168-H	110:1	13200/13200Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757105120	757100169-H	120:1	14400/14400Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
Without FUSE in the secondary box												
757104020	757100140-H	20:1	2400/4160Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757104030	757100141-H	30:1	3600/3600Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757104035	757100142-H	35:1	4200/4200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757104040	757100143-H	40:1	4800/4800Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757104060	757100144-H	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757104063	757100145-H	63.5:1	7620/13200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757104070	757100146-H	70:1	8400/14550Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757104100	757100147-H	100:1	12000/12000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757104110	757100148-H	110:1	13200/13200Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757104120	757100149-H	120:1	14400/14400Y	120	0.3 W,X,M,Y	1.1	1.25	1000	15	110	34	2.5
757100020	757100000-H	20:1	2400/4160Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757100030	757100001-H	30:1	3600/3600Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757100035	757100002-H	35:1	4200/4200Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757100040	757100003-H	40:1	4800/4800Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757100060	757100004-H	60:1	7200/12470Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757100063	757100005-H	63.5:1	7620/13200Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757100070	757100006-H	70:1	8400/14550Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757100100	757100007-H	100:1	12000/12000Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757100110	757100008-H	110:1	13200/13200Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5
757100120	757100009-H	120:1	14400/14400Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1500	15	110	34	2.5

Additional ratings available upon request.

VRN-17

15 kV VOLTAGE TRANSFORMER

Notes:

URJ-24

25 kV VOLTAGE TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

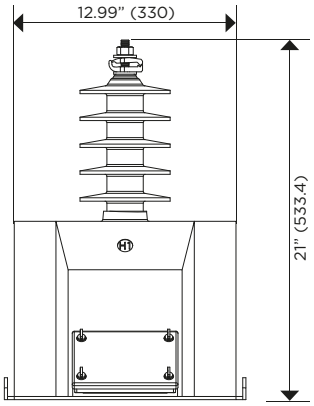
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

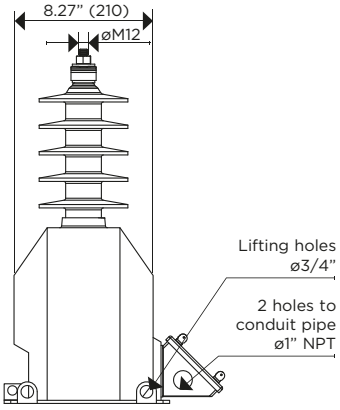
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

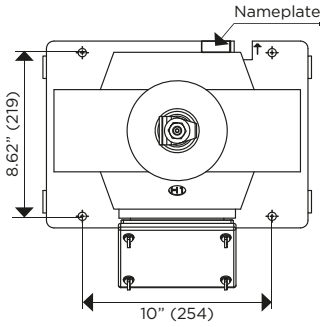
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)
Resin	Gray	93



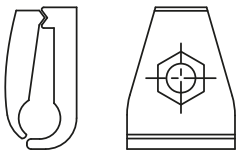




Drawing number:
Fused: 4286593
Unfused: 4286823

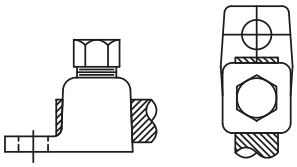
CONNECTIONS

PRIMARY TERMINAL



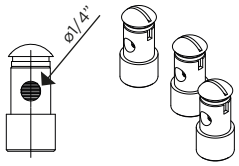
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

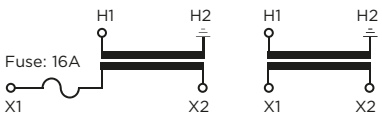
SECONDARY TERMINAL



Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY



FUSED UNFUSED

Approximate dimensions in inches (mm).

URJ-24

25 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
With FUSE in the secondary box												
757071060	757070000-H	60:1	7200/12470GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757071100	757070001-H	100:1	12000/20780GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757079100	757070030-H	100:1	12000/20780GY	120	0.15 W,X	1.1	1.25	1000	25	150	50	2.5
757071110	757070002-H	110:1	13200/22860GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757079110	757070031-H	110:1	13200/22863GY	120	0.15 W,X	1.1	1.25	1000	25	150	50	2.5
757071120	757070003-H	120:1	14400/24940GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757079120	757070032-H	120:1	14400/24250GY	120	0.15 W,X	1.1	1.25	1000	25	150	50	2.5
757071150	757070004-H	150:1	18000/18000GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757079150	757070033-H	150:1	18000/18000GY	120	0.15 W,X	1.1	1.25	1000	25	150	50	2.5
757071200	757070005-H	200:1	24000 /24000GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757079200	757070034-H	200:1	24000 /24000GY	120	0.15 W,X	1.1	1.25	1000	25	150	50	2.5
Without FUSE in the secondary box												
757070060	757070015-H	60:1	7200/12470GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757070100	757070016-H	100:1	12000/20780GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757070110	757070017-H	110:1	13200/22860GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757070120	757070018-H	120:1	14400/24940GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757070150	757070019-H	150:1	18000/18000GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757070200	757070020-H	200:1	24000 /24000GY	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5

Additional ratings available upon request.

Notes: .....

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URN-24

25 kV VOLTAGE TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

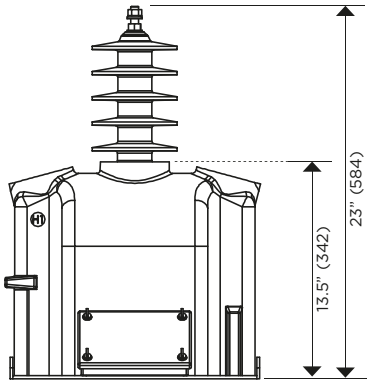
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

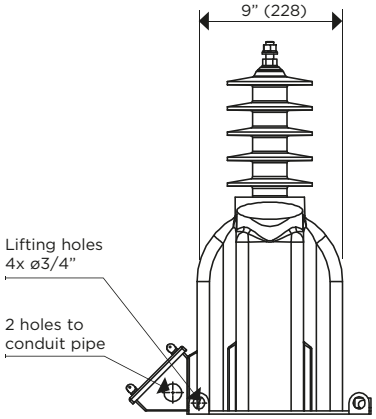
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

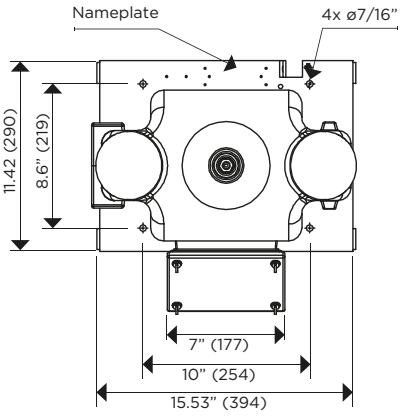
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	136.4	27.5	14.69



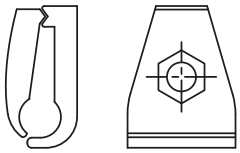




Drawing number:
Fused: 4289008 | Unfused: 4287740

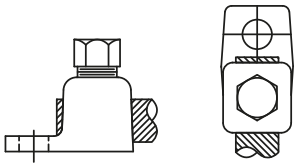
CONNECTIONS

PRIMARY TERMINAL



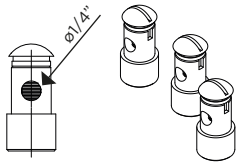
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

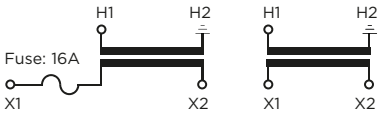
SECONDARY TERMINAL



Type: Quick Connector
Material: Brass

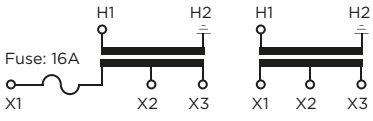
MARKING (Single Primary Ratio)

SINGLE SECONDARY



FUSED UNFUSED

ONE SECONDARY WITH TAP



FUSED UNFUSED

Approximate dimensions in inches (mm).

URN-24

25 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
With FUSE in the secondary box												
757441100	757440010-H	100:1	12000/20784GY	120	0.3 W,X,M,Y	1.1	1.5	1000	25	150	50	2.5
757441110	757440011-H	110:1	13200/22863GY	120	0.3 W,X,M,Y	1.1	1.5	1000	25	150	50	2.5
757441120	757440012-H	120:1	14400/24940GY	120	0.3 W,X,M,Y	1.1	1.5	1000	25	150	50	2.5
757443120	757440020-H	60/120:1	7200/12470GY & 14400/24940GY	120	0.3 W,X / 0.3 W,X,M,Y	1.1	1.5	1000	25	150	50	2.5
757443200	757440021-H	120/200:1	14400/24940GY	120/72	0.3 W,X,M,Y	1.1	1.5	1000	25	150	50	2.5
757445100	757440040-H	100:1	12000/20784GY	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757445110	757440041-H	110:1	13200/22863GY	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757445120	757440042-H	120:1	14400/24940GY	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757446120	757440050-H	60/120:1	7200/12470GY & 14400/24940GY	120	0.3 W,X / 0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757446200	757440051-H	120/200:1	14400/24940GY	120/72	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
Without FUSE in the secondary box												
757444100	757440030-H	100:1	12000/20784GY	120	0.3 W,X,M,Y	1.1	1.5	1000	25	150	50	2.5
757444110	757440031-H	110:1	13200/22863GY	120	0.3 W,X,M,Y	1.1	1.5	1000	25	150	50	2.5
757444120	757440032-H	120:1	14400/24940GY	120	0.3 W,X,M,Y	1.1	1.5	1000	25	150	50	2.5
757444200	757440033-H	120/200:1	14400/24940GY	120/72	0.3 W,X,M,Y	1.1	1.5	1000	25	150	50	2.5
757440100	757440000-H	100:1	12000/20784GY	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757440110	757440001-H	110:1	13200/22863GY	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757440120	757440002-H	120:1	14400/24940GY	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757448200	757440060-H	120/200:1	14400/24940GY	120/72	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5

Additional ratings available upon request.

Notes: .....

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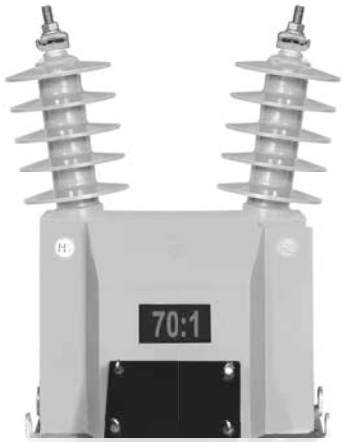
VRJ-24

25 kV VOLTAGE TRANSFORMER



OUTDOOR
60 Hertz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

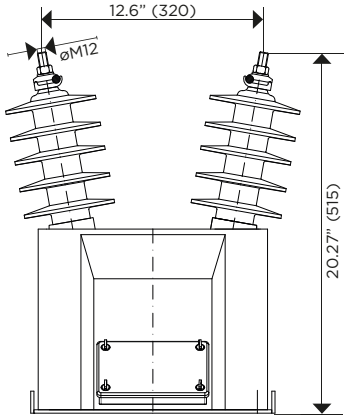
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

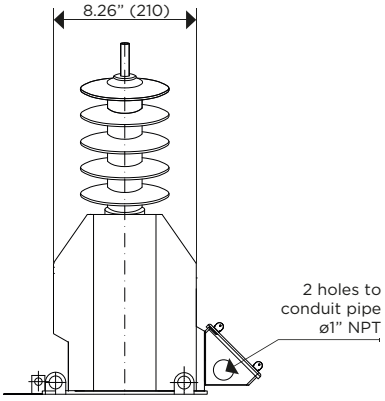
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

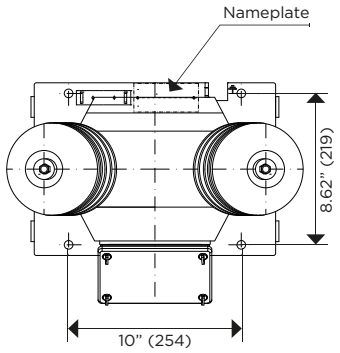
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	99	33.46	10.63



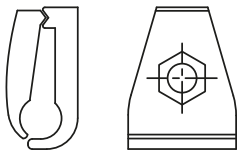




Drawing number:
Fused: 4286574
Unfused: 4286824

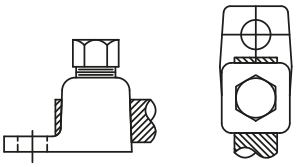
CONNECTIONS

PRIMARY TERMINAL



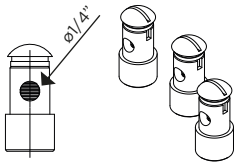
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

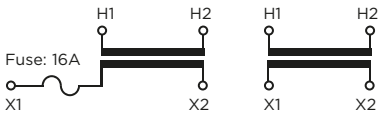
SECONDARY TERMINAL



Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY



FUSED UNFUSED

Approximate dimensions in inches (mm).

VRJ-24

25 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
With FUSE in the secondary box												
757141060	757140010-H	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757141100	757140011-H	100:1	12000/20780Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757149100	757140020-H	100:1	12000/20780Y	120	0.15 W,X	1.1	1.25	1000	25	150	50	2.5
757141110	757140012-H	110:1	13200/22860Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757149110	757140021-H	110:1	13200/22860Y	120	0.15 W,X	1.1	1.25	1000	25	150	50	2.5
757141120	757140013-H	120:1	14400/24940Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757149120	757140022-H	120:1	14400/24250Y	120	0.15 W,X	1.1	1.25	1000	25	150	50	2.5
757141150	757140014-H	150:1	18000/18000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757149150	757140023-H	150:1	18000/18000Y	120	0.15 W,X	1.1	1.25	1000	25	150	50	2.5
757141200	757140015-H	200:1	24000 /24000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757149200	757140024-H	200:1	24000 /24000Y	120	0.15 W,X	1.1	1.25	1000	25	150	50	2.5
Without FUSE in the secondary box												
757140060	757140000-H	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757140100	757140001-H	100:1	12000/20780Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757140110	757140002-H	110:1	13200/22860Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757140120	757140003-H	120:1	14400/24940Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757140150	757140004-H	150:1	18000/18000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757140200	757140005-H	200:1	24000 /24000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5

Additional ratings available upon request.

Notes: .....

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VRN-24

25 kV VOLTAGE TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

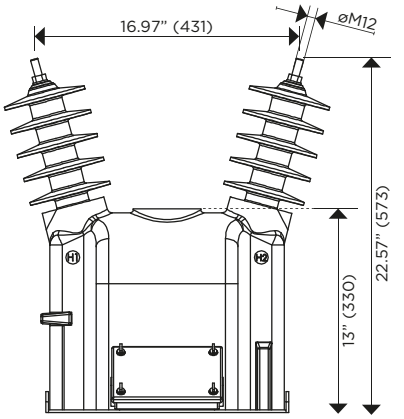
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

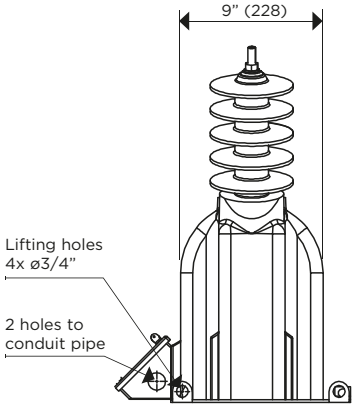
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

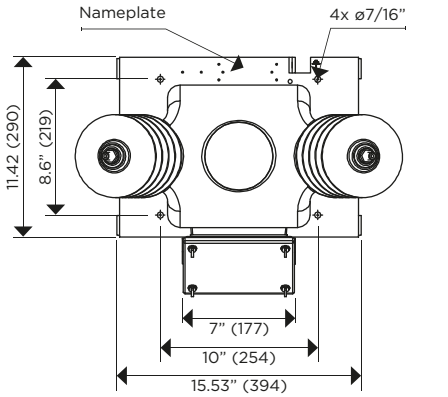
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	140	31.88	10.82



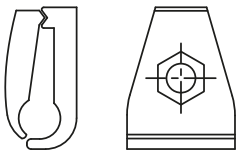




Drawing number:
Fused: 4289002 | Unfused: 4287757

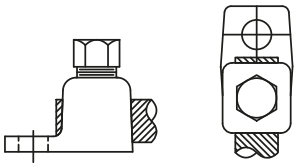
CONNECTIONS

PRIMARY TERMINAL



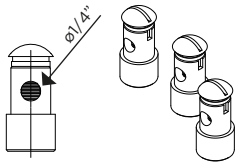
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

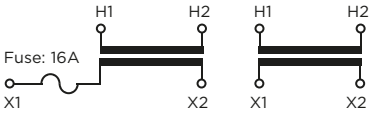
SECONDARY TERMINAL



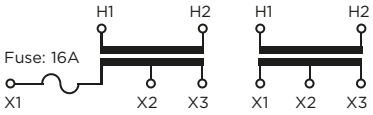
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY



ONE SECONDARY WITH TAP



Approximate dimensions in inches (mm).

VRN-24

25 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
With FUSE in the secondary box												
757201060	757200010-H	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757203120	757200020-H	60/120:1	7200/12470Y & 14400/24940Y	120	0.3 W,X / 0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757201100	757200011-H	100:1	12000/20780Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757201110	757200012-H	110:1	13200/22860Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757201120	757200013-H	120:1	14400/24940Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757203200	757200021-H	120/200:1	14400/24250Y	120/72	0.3 W,X,M,Y / 0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757201150	757200014-H	150:1	18000/18000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757201200	757200015-H	200:1	24000 /24000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757209100	757200070-H	100:1	12000/20780Y	120	0.15 W,X	1.1	1.25	1000	25	150	50	2.5
757209110	757200071-H	110:1	13200/22860Y	120	0.15 W,X	1.1	1.25	1000	25	150	50	2.5
757209120	757200072-H	120:1	14400/24250Y	120	0.15 W,X	1.1	1.25	1000	25	150	50	2.5
757209150	757200073-H	150:1	18000/18000Y	120	0.15 W,X	1.1	1.25	1000	25	150	50	2.5
757209200	757200074-H	200:1	24000 /24000Y	120	0.15 W,X	1.1	1.25	1000	25	150	50	2.5
757205060	757200040-H	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757206120	757200050-H	60/120:1	7200/12470Y & 14400/24940Y	120	0.3 W,X / 0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757205100	757200041-H	100:1	12000/20780Y	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757205110	757200042-H	110:1	13200/22860Y	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757205120	757200043-H	120:1	14400/24940Y	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757206200	757200051-H	120/200:1	14400/24250Y	120/72	0.3 W,X,M,Y / 0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757205150	757200044-H	150:1	18000/18000Y	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757205200	757200045-H	200:1	24000 /24000Y	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757206100	757200052-H	100:1	12000/20780Y	120	0.15 W,X	1.1	1.25	1500	25	150	50	2.5
757206110	757200053-H	110:1	13200/22860Y	120	0.15 W,X	1.1	1.25	1500	25	150	50	2.5
757206150	757200054-H	150:1	18000/18000Y	120	0.15 W,X	1.1	1.25	1500	25	150	50	2.5
Without FUSE in the secondary box												
757204060	757200030-H	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757204100	757200031-H	100:1	12000/20780Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757204110	757200032-H	110:1	13200/22860Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757204120	757200033-H	120:1	14400/24940Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757204150	757200034-H	150:1	18000/18000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757204200	757200035-H	200:1	24000/24000Y	120	0.3 W,X,M,Y	1.1	1.25	1000	25	150	50	2.5
757200060	757200000-H	60:1	7200/12470Y	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757200100	757200001-H	100:1	12000/20780Y	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757200110	757200002-H	110:1	13200/22860Y	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757200120	757200003-H	120:1	14400/24940Y	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757200150	757200004-H	150:1	18000/18000Y	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5
757200200	757200005-H	200:1	24000/24000Y	120	0.3 W,X,M,Y	1.1	1.25	1500	25	150	50	2.5

Additional ratings available upon request.

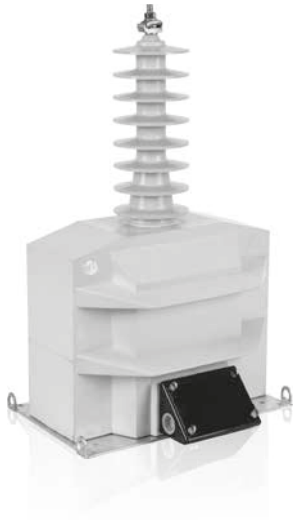
VRN-24

25 kV VOLTAGE TRANSFORMER

Notes:

URS-36

34.5 kV VOLTAGE TRANSFORMER



OUTDOOR
60 Hertz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

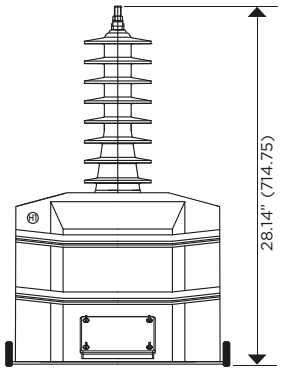
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

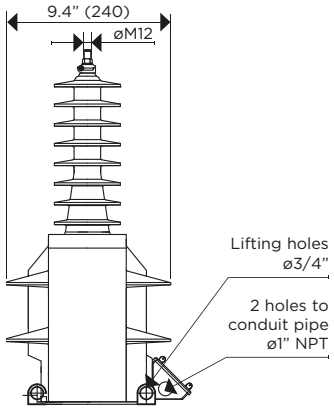
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

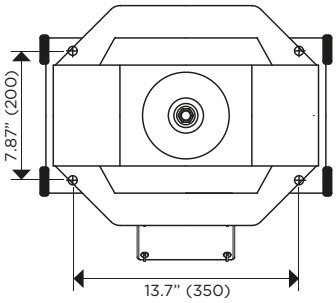
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	174	49.6	25.2



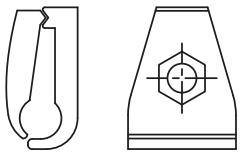




Drawing number:
Fused: 4286578
Unfused: 4286773

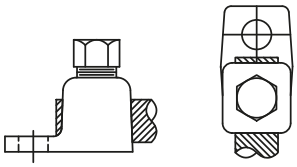
CONNECTIONS

PRIMARY TERMINAL



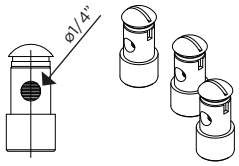
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

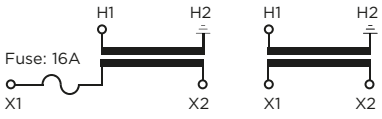
SECONDARY TERMINAL



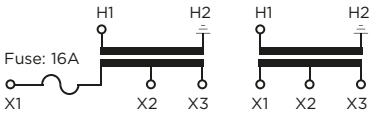
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY



ONE SECONDARY WITH TAP



Approximate dimensions in inches (mm).

URS-36

34.5 kV VOLTAGE TRANSFORMER

Electrical characteristics

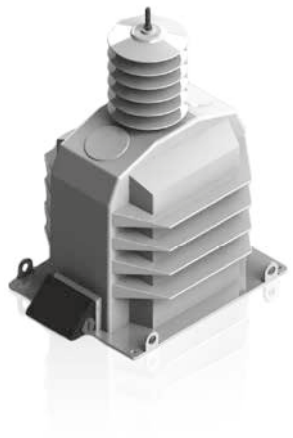
Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
With FUSE in the secondary box												
757861140	757860012-H	140:1	16800/29098GY	120	0.3 W,X,M,Y	1.1	1.73	1000	34.5	200	70	2.5
757863240	757860020-H	140/240:1	16100/27886GY	115/67.08	0.3 W,X,M,Y	1.1	1.73	1000	34.5	200	70	2.5
757861166	757860010-H	166:1	19920/34500GY	120	0.3 W,X,M,Y	1.1	1.73	1000	34.5	200	70	2.5
757861175	757860011-H	175:1	20125/34857GY	115	0.3 W,X,M,Y	1.1	1.73	1000	34.5	200	70	2.5
757863300	757860021-H	175/300:1	20125/34857GY	115/67.08	0.3 W,X,M,Y	1.1	1.73	1000	34.5	200	70	2.5
Without FUSE in the secondary box												
757860140	757860000-H	140:1	16800/29098GY	120	0.3 W,X,M,Y	1.1	1.73	1000	34.5	200	70	2.5
757868240	757860030-H	140/240:1	16100/27886GY	115/67.08	0.3 W,X,M,Y	1.1	1.73	1000	34.5	200	70	2.5
757860166	757860001-H	166:1	19920/34500GY	120	0.3 W,X,M,Y	1.1	1.73	1000	34.5	200	70	2.5
757860175	757860002-H	175:1	20125/34857GY	115	0.3 W,X,M,Y	1.1	1.73	1000	34.5	200	70	2.5
757868300	757860031-H	175/300:1	20125/34857GY	115/67.08	0.3 W,X,M,Y	1.1	1.73	1000	34.5	200	70	2.5

Additional ratings available upon request.

Notes: .....

URU-36

34.5 kV VOLTAGE TRANSFORMER



OUTDOOR
60 Hertz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

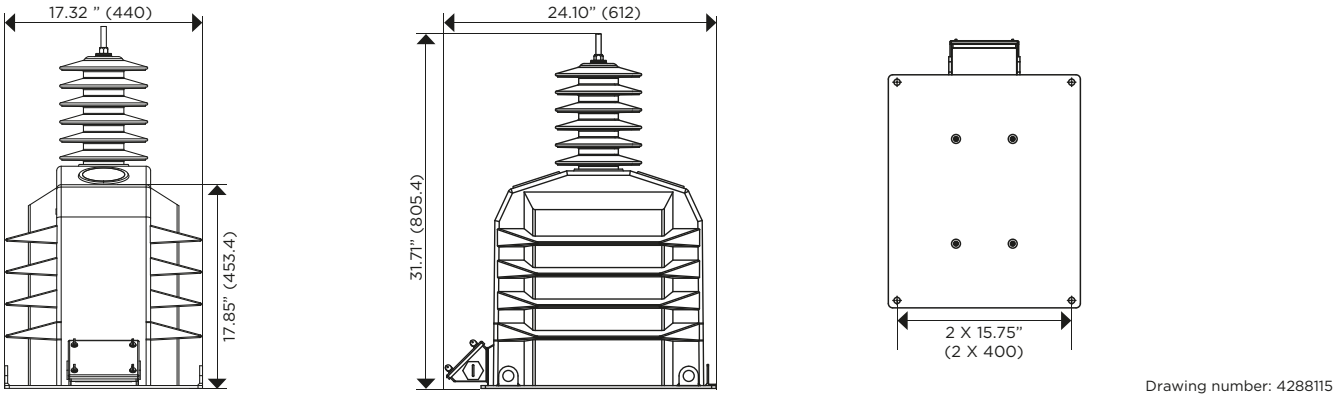
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

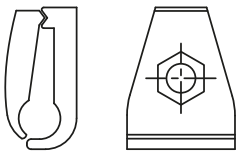
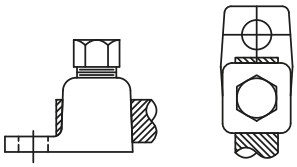
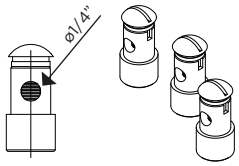
Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	273	50.5	25.2

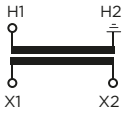
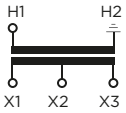
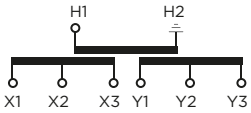


Drawing number: 4288115

CONNECTIONS

PRIMARY TERMINAL	GROUND TERMINAL	SECONDARY TERMINAL
		
Type: TE-4T Material: Copper Range: 8SOL-4TRE	Type: TE-12-250 Material: Copper Range: 4TRE-250MCM	Type: Quick Connector Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY	ONE SECONDARY WITH TAP	TWO SECONDARY WITH TAP
		

Approximate dimensions in inches (mm).

URU-36

34.5 kV VOLTAGE TRANSFORMER

Electrical characteristics

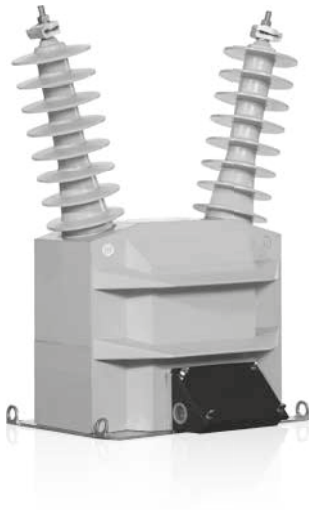
Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Conti-nuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
757880175	757880000-H	175:1	20125/ 34857GY	115	0.3 W,X,M,Y,Z,ZZ	1.1	1.25	2500	34.5	200	70	2.5
757883300	757880001-H	175/300:1 & 175/300:1	20125/ 34857GY	115/67.08 & 115/67.08	0.3 W,X,M,Y,Z/0.3 W,X,M,Y & 0.3 W,X,M,Y,Z/0.3 W,X,M,Y	1.1	1.25	1250 & 1250	34.5	200	70	2.5

Additional ratings available upon request.

Notes: .....

VRS-36

34.5 kV VOLTAGE TRANSFORMER



OUTDOOR
60 Hertz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

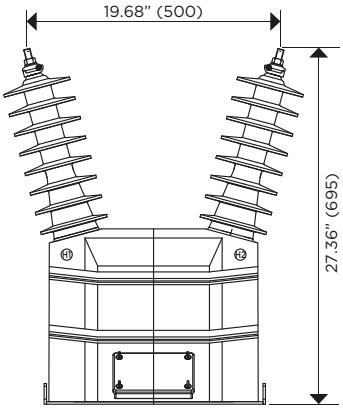
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

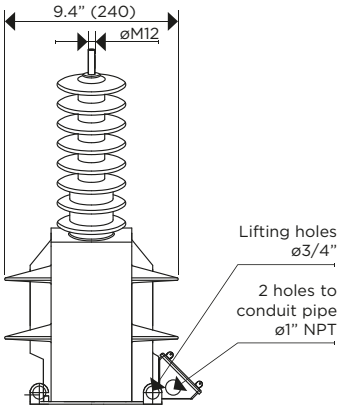
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

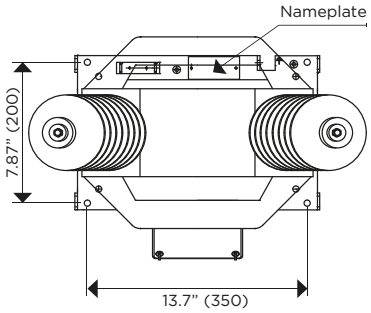
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	183	49.2	183



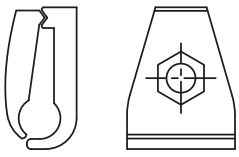




Drawing number:
Fused: 4286579
Unfused: 4286825

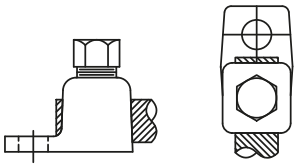
CONNECTIONS

PRIMARY TERMINAL



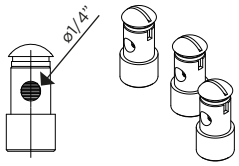
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

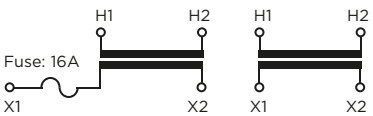
SECONDARY TERMINAL



Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY



ONE SECONDARY WITH TAP

Approximate dimensions in inches (mm).

VRS-36

34.5 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
With FUSE in the secondary box												
757923166	757920020-H	69.25 / 166:1	8310/14393Y & 19920/34500Y	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	200	70	2.5
757921140	757920010-H	140:1	16800/29098Y	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	200	70	2.5
757923240	757920021-H	140/240:1	16100/27886Y	115/67.08	0.3 W,X,M,Y	1.1	1.25	1000	34.5	200	70	2.5
757921166	757920011-H	166:1	19920/34500Y	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	200	70	2.5
757921175	757920012-H	175:1	20125/34857Y	115	0.3 W,X,M,Y	1.1	1.25	1000	34.5	200	70	2.5
757923300	757920022-H	175/300:1	20125/34857Y	115/67.08	0.3 W,X,M,Y	1.1	1.25	1000	34.5	200	70	2.5
757921220	757920013-H	220:1	26400/26400Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1000	34.5	200	70	2.5
757923400	757920023-H	240/400:1	27600/27600Y	115 / 69	0.3 W,X,M,Y	1.1	1.25	1000	34.5	200	70	2.5
757921300	757920014-H	300:1	34500/34500Y	115	0.3 W,X,M,Y,Z	1.1	1.25	1000	34.5	200	70	2.5
757923500	757920024-H	300/500:1	34500/34500Y	115/69	0.3 W,X,M,Y	1.1	1.25	1000	34.5	200	70	2.5
757929140	757920040-H	140:1	16800/29098Y	120	0.15 W,X	1.1	1.25	1000	34.5	200	70	2.5
757929166	757920041-H	166:1	19920/34500Y	120	0.15 W,X	1.1	1.25	1000	34.5	200	70	2.5
757929175	757920042-H	175:1	20125/34500Y	115	0.15 W,X	1.1	1.25	1000	34.5	200	70	2.5
757929200	757920043-H	220:1	26400/26400Y	120	0.15 W,X	1.1	1.25	1000	34.5	200	70	2.5
757929300	757920044-H	300:1	34500/34500Y	115	0.15 W,X	1.1	1.25	1000	34.5	200	70	2.5
Without FUSE in the secondary box												
757928166	757920030-H	69.25 / 166:1	8310/14393Y & 19920/34500Y	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	200	70	2.5
757920140	757920000-H	140:1	16800/29098Y	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	200	70	2.5
757928240	757920031-H	140/240:1	16100/27886Y	115/67.08	0.3 W,X,M,Y	1.1	1.25	1000	34.5	200	70	2.5
757920166	757920001-H	166:1	19920/34500Y	120	0.3 W,X,M,Y	1.1	1.25	1000	34.5	200	70	2.5
757920175	757920002-H	175:1	20125/34857Y	115	0.3 W,X,M,Y	1.1	1.25	1000	34.5	200	70	2.5
757928300	757920032-H	175/300:1	20125/34857Y	115/67.08	0.3 W,X,M,Y	1.1	1.25	1000	34.5	200	70	2.5
757920220	757920003-H	220:1	26400/26400Y	120	0.3 W,X,M,Y,Z	1.1	1.25	1000	34.5	200	70	2.5
757928400	757920033-H	240/400:1	27600/27600Y	115 / 69	0.3 W,X,M,Y	1.1	1.25	1000	34.5	200	70	2.5
757920300	757920004-H	300:1	34500/34500Y	115	0.3 W,X,M,Y,Z	1.1	1.25	1000	34.5	200	70	2.5
757928500	757920034-H	300/500:1	34500/34500Y	115/69	0.3 W,X,M,Y	1.1	1.25	1000	34.5	200	70	2.5

Additional ratings available upon request.

Notes: .....

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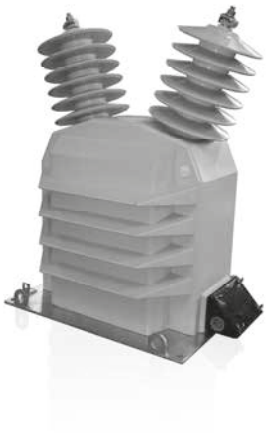
VRU-36

34.5 kV VOLTAGE TRANSFORMER



OUTDOOR
60 Hertz

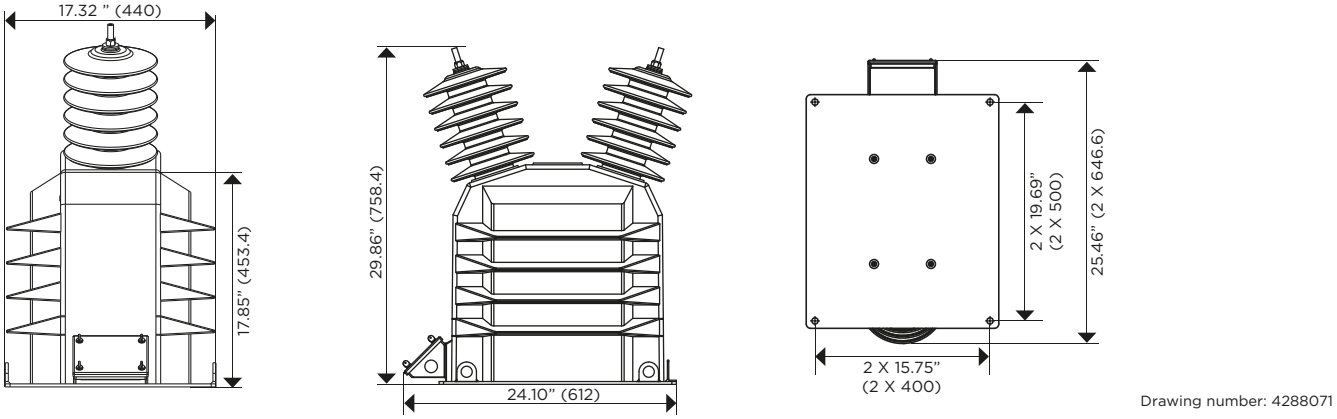
ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

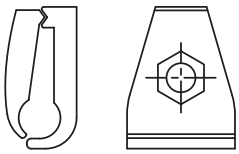
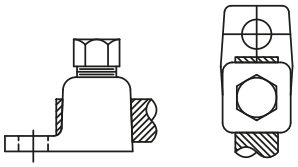
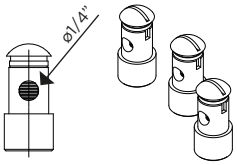
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics				
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	284	47.5	25.2

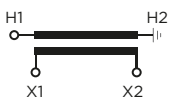
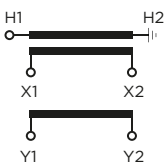
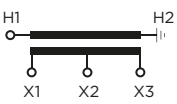
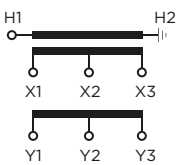


Drawing number: 4288071

CONNECTIONS

PRIMARY TERMINAL	GROUND TERMINAL	SECONDARY TERMINAL
		
Type: TE-4T Material: Copper Range: 8SOL-4TRE	Type: TE-12-250 Material: Copper Range: 4TRE-250MCM	Type: Quick Connector Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY	TWO SECONDARIES	ONE SECONDARY WITH TAP	TWO SECONDARIES WITH TAP
			

Approximate dimensions in inches (mm).

VRU-36

34.5 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
757890175	757890000-H	175:1	20125/34857Y	115	0.3 W,X,M,Y,Z,ZZ	1.1	1.25	2500	34.5	200	70	2.5
757892175	757890001-H	175:1 & 175:1	20125/34857Y	115 & 115	0.3 W,X,M,Y,Z*	1.1	1.25	1250 & 1250	34.5	200	70	2.5
757890200	757890002-H	200:1	23000/23000Y	115	0.3 W,X,M,Y,Z,ZZ	1.1	1.25	2500	34.5	200	70	2.5
757892240	757890003-H	240:1 & 240:1	27600/27600Y	115 & 115	0.3 W,X,M,Y,Z*	1.1	1.25	1250 & 1250	34.5	200	70	2.5
757892300	757890004-H	300:1 & 300:1	34500/34500Y	115 & 115	0.3 W,X,M,Y,Z*	1.1	1.25	1250 & 1250	34.5	200	70	2.5
757893300	757890005-H	175/300:1	20125/34857Y	115/67.08	0.3 W,X,M,Y,Z	1.1	1.25	2500	34.5	200	70	2.5
757893500	757890006-H	300/500:1	34500/34500Y	115/69	0.3 W,X,M,Y,Z	1.1	1.25	2500	34.5	200	70	2.5
757896300	757890007-H	175/300:1 & 175/300:1	20125/34857Y	115/67.08 & 115/67.08	0.3 W,X,M,Y,Z/0.3 W,X,M,Y & 0.3 W,X,M,Y,Z/0.3 W,X,M,Y	1.1	1.25	1250 & 1250	34.5	200	70	2.5
757893520	757890008-H	175/300:1 & 300/520:1	20125/34500Y	115/67.08 & 115/66.34	0.3 W,X,M,Y,Y/0.3 W,X,M,Y & 0.3 W,X,M,Y,Z /0.3 W,X,M,Y,Z	1.1	1.25	1000 & 1000	34.5	200	70	2.5

*The burden on any two secondary terminals affects the accuracy on all other terminals. The burden stated in the accuracy ratings is the total burden on the transformer. The accuracy class shall apply with the burden divided between the secondary outputs in any manner, unless otherwise specified in detail.

Additional ratings available upon request.

Notes: .....

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URN-36

36 kV VOLTAGE TRANSFORMER (INSULATED H2)

OUTDOOR
50/60Hz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

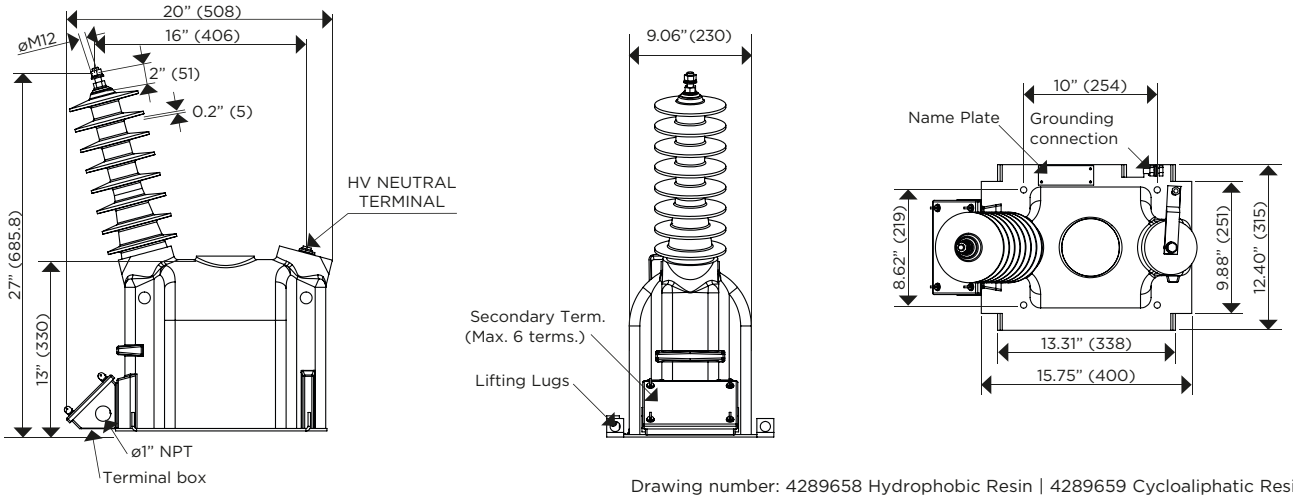
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions. Partial Discharge measurements exceed the IEEE and CAN/CSA requirements.

This voltage transformer is designed for mounting on poles or substation structures in an upright, underhung or cantilever position.

Mechanical characteristics

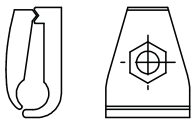
Insulation Material	Colors	Weight (lb)	Creepage distance (in)	Strike distance (in)
Epoxy resin	Gray	136	44.09	18



Drawing number: 4289658 Hydrophobic Resin | 4289659 Cycloaliphatic Resin.
Approximate dimensions in inches (mm).

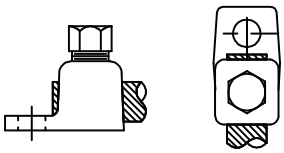
CONNECTIONS

PRIMARY TERMINAL



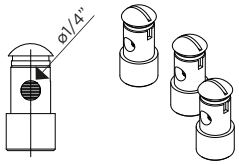
Type: TE-4T
Material: Cooper
Range: 8SOL-4TRE

GROUND TERMINAL



Type: TE-12-250
Material: Cooper
Range: 4TRE-250MCM

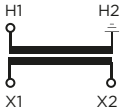
SECONDARY TERMINAL



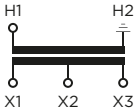
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY



ONE SECONDARY WITH TAP



URN-36

36 kV VOLTAGE TRANSFORMER (INSULATED H2)

OUTDOOR VOLTAGE TRANSFORMER CATALOG

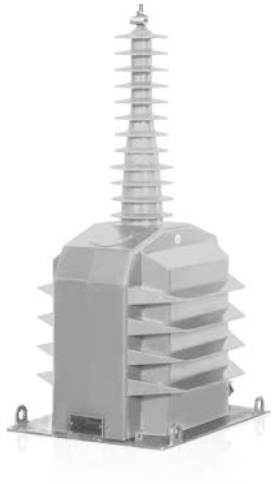
Code (CEP)	Code (HCEP)	Connection	Fusing	Ratio	Primary	Secondary	Accuracy / Burden	Rated continuous Voltage [Un]
				166:1	19920/34500GY	120		
757840101	757840104-H	LINE-GROUND	Unfused	175:1	20125/34857GY	115	0.3 W,X,M,Y	1.1 Un
757840102	757840105-H			175/300:1	20125/34857GY	115/67.08		

					Power-frequency withstand	
Model	Rated voltage factor [Un] 30sec	Total Thermal Burden (Typical)	Nominal Voltage System (kV)	BIL (kV)	Power frequency applied voltage test (kV rms)	Power frequency secondary applied voltage test (kV rms)
URN-36	1.73 Un	1000 VA	34.5	200	70	2.5

Notes: .....

URU-52

46 kV VOLTAGE TRANSFORMER



OUTDOOR
60 Hertz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

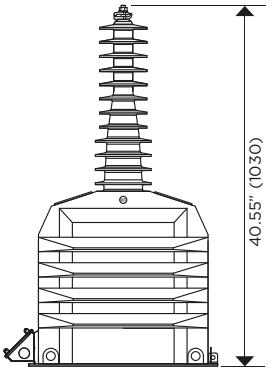
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

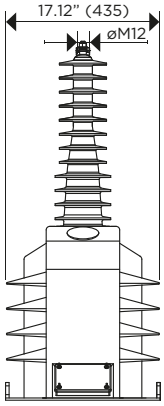
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

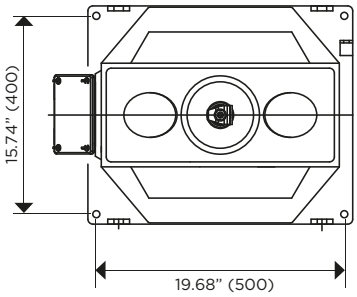
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	374	64.56	38.58



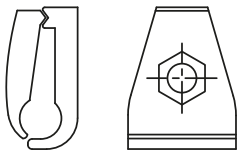




Drawing number: 9449585

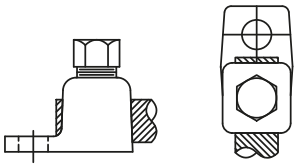
CONNECTIONS

PRIMARY TERMINAL



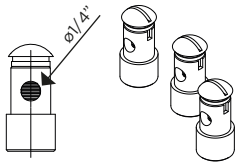
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

SECONDARY TERMINAL

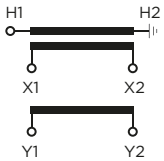


Type: Quick Connector
Material: Brass

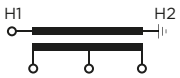
MARKING (Single Primary Ratio)

ONE SECONDARY

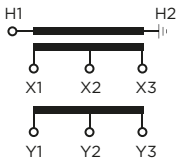
TWO SECONDARIES



ONE SECONDARY WITH TAP



TWO SECONDARIES WITH TAP



Approximate dimensions in inches (mm).

URU-52

46 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Conti-nuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
757971300	757970000-H	300:1	34500/34500GY	115	0.3W,X,M,Y,Z,ZZ	1.1	1.73	2500	34.5	200	140	2.5
757972300	757970010-H	300:1 & 300:1	34500/34500GY	115 & 115	0.3W,X,M,Y,Z*	1.1	1.73	1500 & 1500	34.5	200	140	2.5
757973500	757970020-H	300/500:1	34500/34500GY	115/69	0.3W,X,M,Y,Z	1.1	1.73	2500	34.5	200	70	2.5
757971240	757970001-H	240:1	27600/47804GY	115	0.3 W,X,M,Y,Z,ZZ	1.1	1.73	2500	46	250	95	2.5
757972240	757970011-H	240:1 & 240:1	27600/47804GY	115 & 115	0.3 W,X,M,Y,Z*	1.1	1.73	1250 & 1250	46	250	95	2.5
757973400	757970021-H	240/400:1	27600/47804GY	115/69	0.3 W,X,M,Y,Z	1.1	1.73	2500	46	250	95	2.5
757979240	757970030-H	240:1	27600/47804GY	115	0.15 W,X,M,Y,Z	1.1	1.73	2500	46	250	95	2.5
757972400	757970012-H	240/400:1 & 240/400:1	27600/47804GY	115/69 & 115/69	0.3 W,X,M,Y,Z/0.3 W,X,M,Y & 0.3 W,X,M,Y,Z/0.3 W,X,M,Y	1.1	1.73	1250 & 1250	46	250	95	2.5

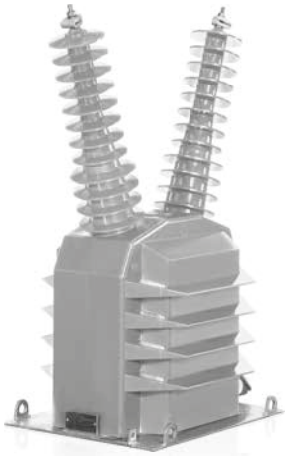
*The burden on any two secondary terminals affects the accuracy on all other terminals. The burden stated in the accuracy ratings is the total burden on the transformer. The accuracy class shall apply with the burden divided between the secondary outputs in any manner, unless otherwise specified in detail.

Additional ratings available upon request.

Notes: .....

VRU-52

46 kV VOLTAGE TRANSFORMER



OUTDOOR
60 Hertz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

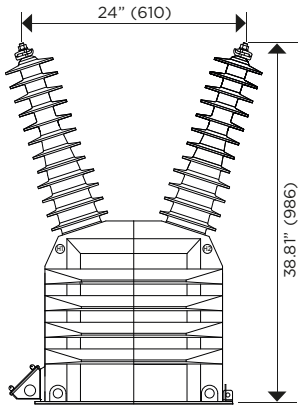
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

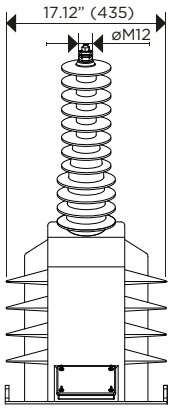
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

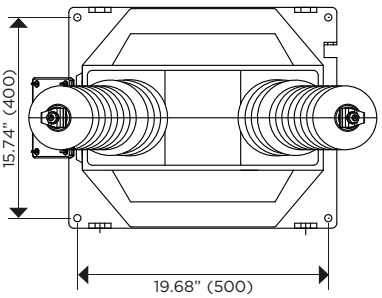
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	394	61.41	24



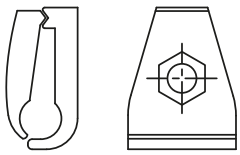




Drawing number: 9449540

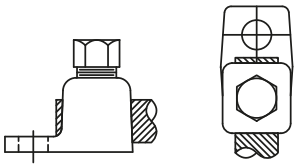
CONNECTIONS

PRIMARY TERMINAL



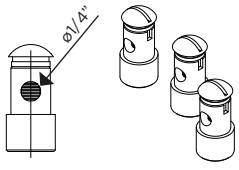
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



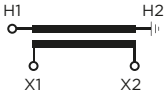
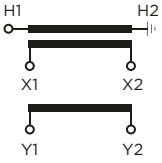
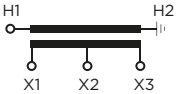
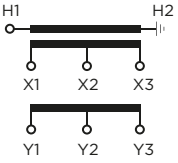
Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

SECONDARY TERMINAL



Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY	TWO SECONDARIES	ONE SECONDARY WITH TAP	TWO SECONDARIES WITH TAP
			

Approximate dimensions in inches (mm).

VRU-52

46 kV VOLTAGE TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
757981240	757980000-H	240:1	27600/47804Y	115	0.3 W,X,M,Y,Z,ZZ	1.1	1.25	3000	46	250	95	2.5
757982240	757980010-H	240:1 & 240:1	27600/47804Y	115 & 115	0.3 W,X,M,Y,Z*	1.1	1.25	1500 & 1500	46	250	95	2.5
757983400	757980020-H	240/400:1	27600/47804Y	115/69	0.3 W,X,M,Y,Z	1.1	1.25	3000	46	250	95	2.5
757981400	757980001-H	400:1	46000/46000Y	115	0.3 W,X,M,Y,Z,ZZ	1.1	1.25	3000	46	250	95	2.5
757982400	757980011-H	400:1 & 400:1	46000/46000Y	115 & 115	0.3 W,X,M,Y,Z*	1.1	1.25	1500 & 1500	46	250	95	2.5
757983666	757980021-H	400/666.66:1	46000/46000Y	115/69	0.3 W,X,M,Y,Z	1.1	1.25	3000	46	250	95	2.5
757989240	757980040-H	240:1	27600/47804Y	115	0.15 W,X,M,Y,Z	1.1	1.25	3000	46	250	95	2.5
757986400	757980030-H	240/400:1	27600/47804Y	115/69	0.15 W,X,M,Y	1.1	1.25	3000	46	250	95	2.5
757989400	757980041-H	400:1	46000/46000Y	115	0.15 W,X,M,Y,Z	1.1	1.25	3000	46	250	95	2.5

*The burden on any two secondary terminals affects the accuracy on all other terminals. The burden stated in the accuracy ratings is the total burden on the transformer. The accuracy class shall apply with the burden divided between the secondary outputs in any manner, unless otherwise specified in detail.

Additional ratings available upon request.

Notes: .....

URU-72

69 kV VOLTAGE TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

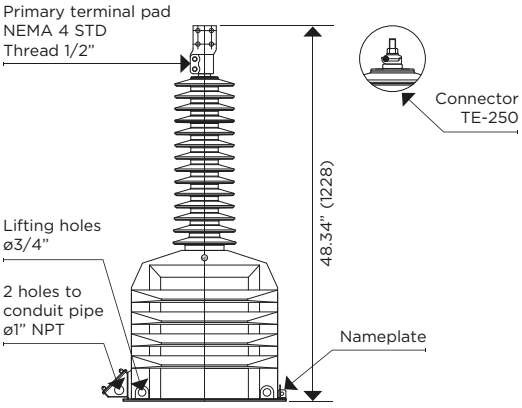
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

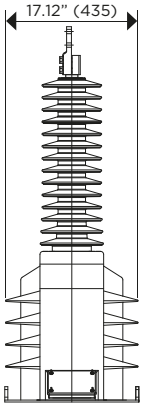
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

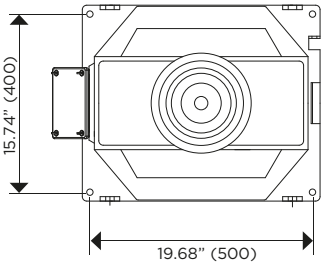
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	381.4	92.91	43.3



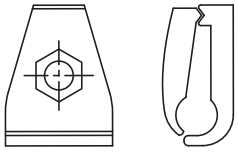




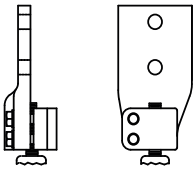
Drawing number: 9449551

CONNECTIONS

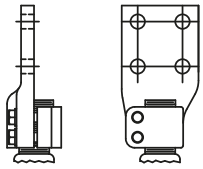
PRIMARY TERMINAL



Type: TE-250
Material: Copper
Range: 2/0 TRE-250MCM

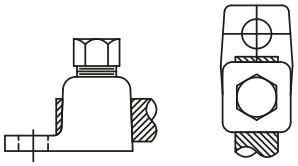


Type: NEMA-2
Material: Copper



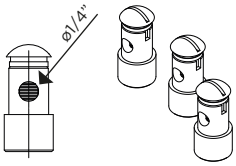
Type: NEMA-4
Material: Copper

GROUND TERMINAL



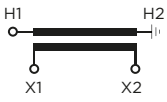
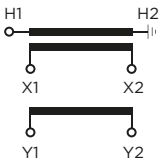
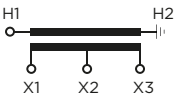
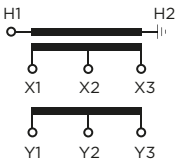
Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

SECONDARY TERMINAL



Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY	TWO SECONDARIES	ONE SECONDARY WITH TAP	TWO SECONDARIES WITH TAP
			

Approximate dimensions in inches (mm).

URU-72

69 kV VOLTAGE TRANSFORMER

Electrical characteristics

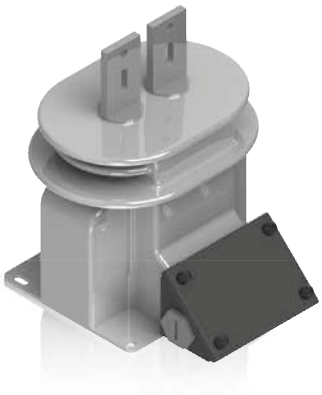
Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Conti-nuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
757551350	757550000-H	350:1	40250/ 69000GY	115	0.3 W,X,M,Y,ZZ	1.1	1.73	2500	69	350	140	2.5
757553600	757550020-H	350/600:1	40250/ 69000GY	115/67.08	0.3 W,X,M,Y,Z	1.1	1.73	2500	69	350	140	2.5
757552600	757550010-H	350/600:1 & 350/600:1	40250/ 69000GY	115/67.08 & 115/67.08	0.3 W,X,M,Y,Z/0.3 W,X,M,Y & 0.3 W,X,M,Y,Z/0.3 W,X,M,Y	1.1	1.73	1250 & 1250	69	350	140	2.5

Additional ratings available upon request.

Notes: .....

CRE-7

5 kV CURRENT TRANSFORMER



OUTDOOR
60 Hertz

ARTECHE CRE-7 model are dry type outdoor service current transformers.

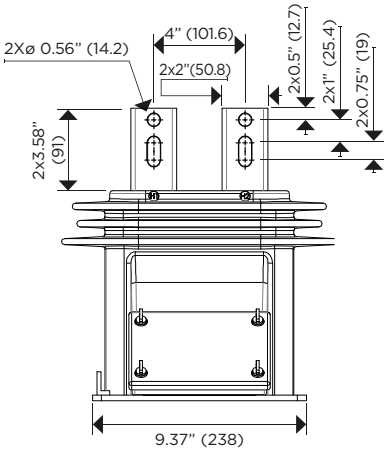
The core and coils are encapsulated with Cycloaliphatic Epoxy Resin (CEP) which provides excellent dielectric properties, mechanical strength, resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. CRE-7 can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which additionally increases the transformers weatherability and offers better performance in heavily polluted environments.

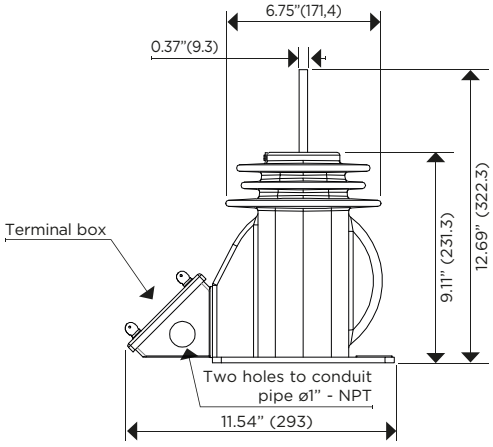
The transformer is maintenance free. The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copperplate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

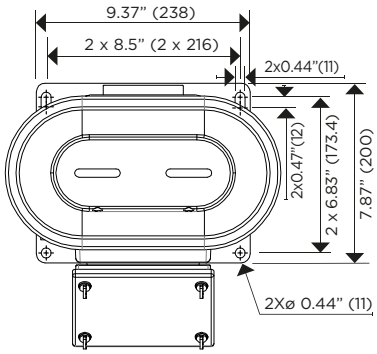
Partial Discharge measurements exceed the IEEE C57.13 2016 requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	43	13.3	3



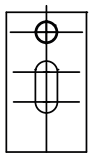




Drawing number: 4287594

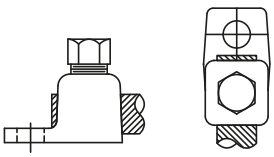
CONNECTIONS

PRIMARY TERMINAL



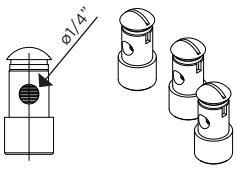
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

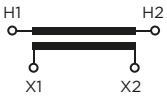
SECONDARY TERMINAL



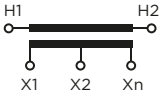
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

CRE-7

5 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Highest Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Code (HCEP)"	Secondary Winding (kV_{rms})
756311001	756310000-H	5:5	1.5	0.5	1.35	0.3 B1.8	T-100	5	60	19	2.5
756311002	756310001-H	10:5	1.5	1	2.7	0.3 B1.8	T-100	5	60	19	2.5
756311003	756310002-H	15:5	1.5	1.5	4.05	0.3 B1.8	T-100	5	60	19	2.5
756311004	756310003-H	20:5	1.5	2	5.4	0.3 B1.8	T-100	5	60	19	2.5
756311005	756310004-H	25:5	1.5	2.5	6.75	0.3 B1.8	T-100	5	60	19	2.5
756311006	756310005-H	30:5	1.5	3	8.1	0.3 B1.8	T-100	5	60	19	2.5
756311008	756310006-H	40:5	1.5	4	10.8	0.3 B1.8	T-100	5	60	19	2.5
756311010	756310007-H	50:5	1.5	5	13.5	0.3 B1.8	T-100	5	60	19	2.5
756311015	756310008-H	75:5	1.5	7.5	20.25	0.3 B1.8	T-100	5	60	19	2.5
756311020	756310009-H	100:5	1.5	10	27	0.3 B1.8	T-100	5	60	19	2.5
756311030	756310010-H	150:5	1.5	15	40.5	0.3 B1.8	T-100	5	60	19	2.5
756311040	756310011-H	200:5	1.5	20	54	0.3 B1.8	T-100	5	60	19	2.5
756311060	756310012-H	300:5	1.5	30	81	0.3 B1.8	T-100	5	60	19	2.5
756311080	756310013-H	400:5	1.5	40	108	0.3 B1.8	T-100	5	60	19	2.5
756311120	756310014-H	600:5	1.5	60	162	0.3 B1.8	T-100	5	60	19	2.5
756311160	756310015-H	800:5	1.5	80	216	0.3 B1.8	T-100	5	60	19	2.5
756311200	756310016-H	1000:5	1.5	100	270	0.3 B1.8	T-70	5	60	19	2.5

Additional ratings available upon request.

Notes: .....

CRB-17

15 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE CR series are dry type outdoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

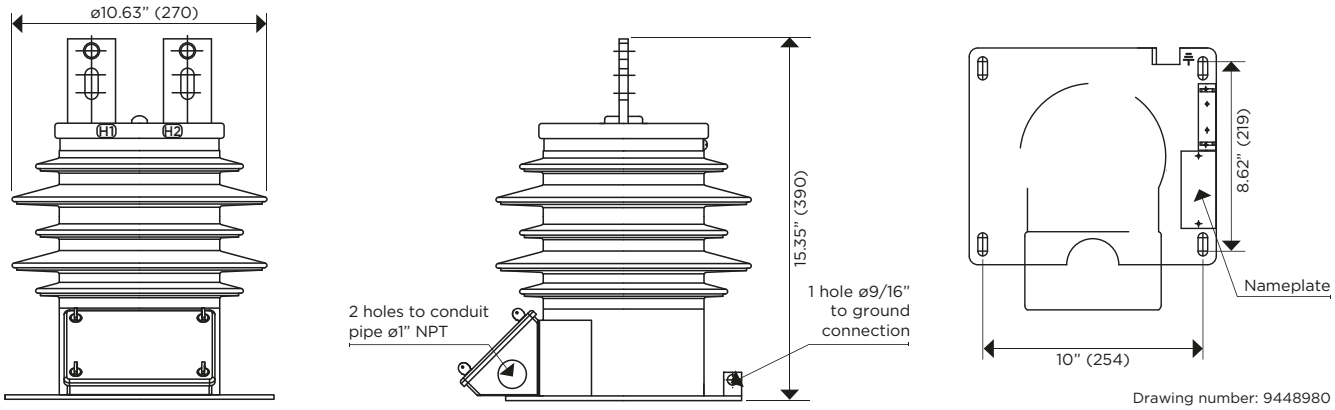
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

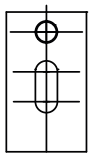
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	48.5	16.5	8



Drawing number: 9448980

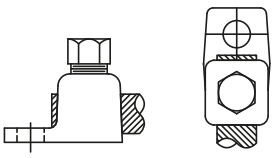
CONNECTIONS

PRIMARY TERMINAL



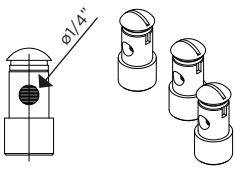
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

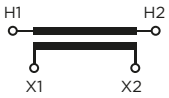
SECONDARY TERMINAL



Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY



Approximate dimensions in inches (mm).

CRB-17

15 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756203001	756200000-H	5:5	3.0	0.5	1.25	0.3 B-0.5	-	15	110	34	2.5
756203002	756200001-H	10:5	3.0	1	2.5	0.3 B-0.5	-	15	110	34	2.5
756203003	756200002-H	15:5	3.0	1.5	3.75	0.3 B-0.5	-	15	110	34	2.5
756203004	756200003-H	20:5	3.0	2	5	0.3 B-0.5	-	15	110	34	2.5
756203005	756200004-H	25:5	3.0	2.5	6.25	0.3 B-0.5	-	15	110	34	2.5
756203006	756200005-H	30:5	3.0	3	7.5	0.3 B-0.5	-	15	110	34	2.5
756203008	756200006-H	40:5	3.0	4	10	0.3 B-0.5	-	15	110	34	2.5
756203010	756200007-H	50:5	3.0	5	12.5	0.3 B-0.5	-	15	110	34	2.5
756203015	756200008-H	75:5	3.0	7.5	18.75	0.3 B-0.5	-	15	110	34	2.5
756203020	756200009-H	100:5	3.0	10	25	0.3 B-0.5	-	15	110	34	2.5
756203030	756200010-H	150:5	3.0	15	37.5	0.3 B-0.5	-	15	110	34	2.5
756203040	756200011-H	200:5	3.0	20	50	0.3 B-0.5	-	15	110	34	2.5
756203060	756200012-H	300:5	3.0	30	75	0.3 B-0.5	-	15	110	34	2.5
756203080	756200013-H	400:5	3.0	40	100	0.3 B-0.5	-	15	110	34	2.5
756203120	756200014-H	600:5	2.0	60	150	0.3 B-0.5	-	15	110	34	2.5
756203160	756200015-H	800:5	1.5	60	150	0.3 B-0.5	-	15	110	34	2.5
756203200	756200016-H	1000:5	1.0	75	127.5	0.3 B-0.5	-	15	110	34	2.5
756203240	756200017-H	1200:5	1.0	90	162	0.3 B-0.5	-	15	110	34	2.5
Shorting Link											
756204001	756200030-H	5:5	3.0	0.5	1.25	0.3 B-0.5	-	15	110	34	2.5
756204002	756200031-H	10:5	3.0	1	2.5	0.3 B-0.5	-	15	110	34	2.5
756204003	756200032-H	15:5	3.0	1.5	3.75	0.3 B-0.5	-	15	110	34	2.5
756204004	756200033-H	20:5	3.0	2	5	0.3 B-0.5	-	15	110	34	2.5
756204005	756200034-H	25:5	3.0	2.5	6.25	0.3 B-0.5	-	15	110	34	2.5
756204006	756200035-H	30:5	3.0	3	7.5	0.3 B-0.5	-	15	110	34	2.5
756204008	756200036-H	40:5	3.0	4	10	0.3 B-0.5	-	15	110	34	2.5
756204010	756200037-H	50:5	3.0	5	12.5	0.3 B-0.5	-	15	110	34	2.5
756204015	756200038-H	75:5	3.0	7.5	18.75	0.3 B-0.5	-	15	110	34	2.5
756204020	756200039-H	100:5	3.0	10	25	0.3 B-0.5	-	15	110	34	2.5
756204030	756200040-H	150:5	3.0	15	37.5	0.3 B-0.5	-	15	110	34	2.5
756204040	756200041-H	200:5	3.0	20	50	0.3 B-0.5	-	15	110	34	2.5
756204060	756200042-H	300:5	3.0	30	75	0.3 B-0.5	-	15	110	34	2.5
756204080	756200043-H	400:5	3.0	40	100	0.3 B-0.5	-	15	110	34	2.5
756204120	756200044-H	600:5	2.0	60	150	0.3 B-0.5	-	15	110	34	2.5
756204160	756200045-H	800:5	1.5	60	150	0.3 B-0.5	-	15	110	34	2.5
756204200	756200046-H	1000:5	1.0	75	127.5	0.3 B-0.5	-	15	110	34	2.5
756204240	756200047-H	1200:5	1.0	90	162	0.3 B-0.5	-	15	110	34	2.5

Additional ratings available upon request.

CRB-17

15 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
High Accuracy Extended Range 5% nominal current to Rating Factor											
756207001	756200060-H	5:5	1.5	0.5	1.25	0.15S B-0.5	-	15	110	34	2.5
756207002	756200061-H	10:5	1.5	1	2.5	0.15S B-0.5	-	15	110	34	2.5
756207003	756200062-H	15:5	1.5	1.5	3.75	0.15S B-0.5	-	15	110	34	2.5
756207004	756200063-H	20:5	1.5	2	5	0.15S B-0.5	-	15	110	34	2.5
756207005	756200064-H	25:5	1.5	2.5	6.25	0.15S B-0.5	-	15	110	34	2.5
756207006	756200065-H	30:5	1.5	3	7.5	0.15S B-0.5	-	15	110	34	2.5
756207008	756200066-H	40:5	1.5	4	10	0.15S B-0.5	-	15	110	34	2.5
756207010	756200067-H	50:5	1.5	5	12.5	0.15S B-0.5	-	15	110	34	2.5
756207015	756200068-H	75:5	1.5	7.5	18.75	0.15S B-0.5	-	15	110	34	2.5
756207020	756200069-H	100:5	1.5	10	25	0.15S B-0.5	-	15	110	34	2.5
756207030	756200070-H	150:5	1.5	15	37.5	0.15S B-0.5	-	15	110	34	2.5
756207040	756200071-H	200:5	1.5	20	50	0.15S B-0.5	-	15	110	34	2.5
756207060	756200072-H	300:5	1.5	30	75	0.15S B-0.5	-	15	110	34	2.5
756207080	756200073-H	400:5	1.5	40	100	0.15S B-0.5	-	15	110	34	2.5
756207120	756200074-H	600:5	1.5	60	150	0.15S B-0.5	-	15	110	34	2.5
756207160	756200075-H	800:5	1.2	60	150	0.15S B-0.5	-	15	110	34	2.5
756207200	756200076-H	1000:5	1.0	75	127.5	0.15S B-0.5	-	15	110	34	2.5
756207240	756200077-H	1200:5	1.0	90	162	0.15S B-0.5	-	15	110	34	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
756206040	756200090-H	200:5	2.0	20	50	0.15 B-0.5	-	15	110	34	2.5
756206120	756200091-H	600:5	1.5	60	150	0.15 B-0.5	-	15	110	34	2.5
756206200	756200092-H	1000:5	1.5	75	127.5	0.15 B-0.5	-	15	110	34	2.5
756206240	756200093-H	1200:5	1.2	90	162	0.15 B-0.5	-	15	110	34	2.5

Additional ratings available upon request.

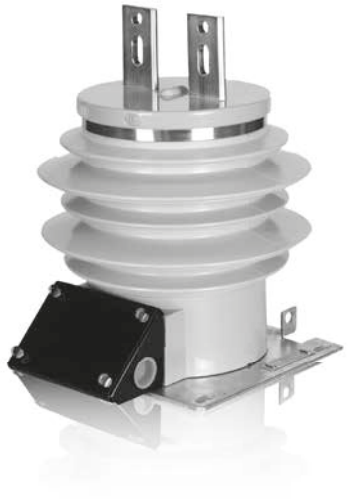
CRB-17

15 kV CURRENT TRANSFORMER

Notes:

CRE-17

15 kV CURRENT TRANSFORMER



OUTDOOR
60 Hertz

ARTECHE CR series are dry type outdoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

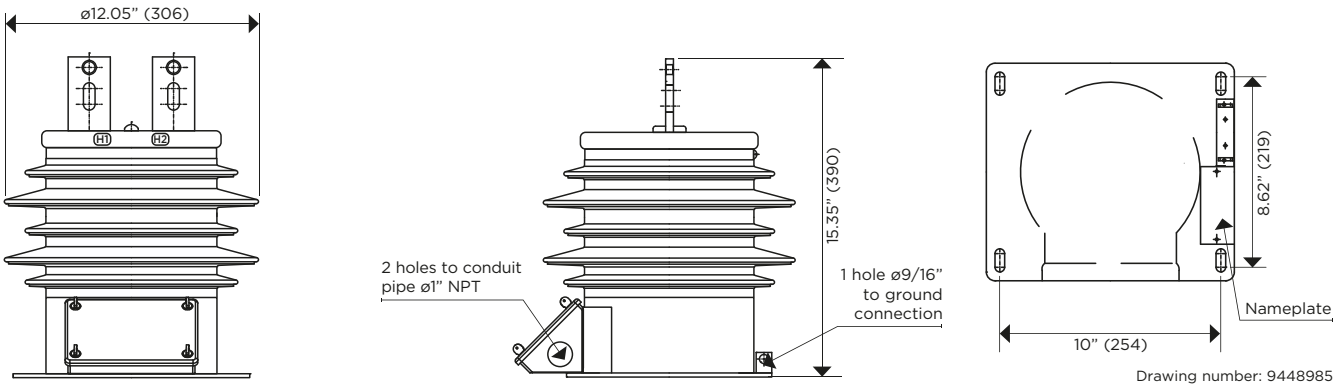
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

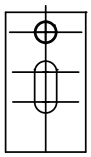
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	68.3	16.5	8



Drawing number: 9448985

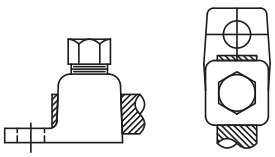
CONNECTIONS

PRIMARY TERMINAL



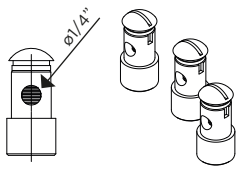
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

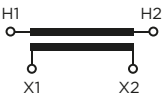
SECONDARY TERMINAL



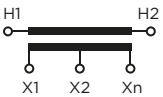
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



NEMA 2 THICKNESS	3/8"	1/2"	3/4"
AMPERES	0 TO 1200	1201 TO 1500	1501 TO 2000

Approximate dimensions in inches (mm).

CRE-17

15 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756231001	756230000-H	5:5	1.5	0.5	0.95	0.3 B-1.8	T150	15	110	34	2.5
756231002	756230001-H	10:5	1.5	1	1.9	0.3 B-1.8	T150	15	110	34	2.5
756231003	756230002-H	15:5	1.5	1.5	2.85	0.3 B-1.8	T150	15	110	34	2.5
756231004	756230003-H	20:5	1.5	2	3.8	0.3 B-1.8	T150	15	110	34	2.5
756231005	756230004-H	25:5	1.5	2.5	4.75	0.3 B-1.8	T150	15	110	34	2.5
756231006	756230005-H	30:5	1.5	3	5.7	0.3 B-1.8	T150	15	110	34	2.5
756231008	756230006-H	40:5	1.5	4	7.6	0.3 B-1.8	T150	15	110	34	2.5
756231010	756230007-H	50:5	1.5	5	9.5	0.3 B-1.8	T150	15	110	34	2.5
756231012	756230008-H	60:5	1.5	6	11.4	0.3 B-1.8	T150	15	110	34	2.5
756231015	756230009-H	75:5	1.5	7.5	14.25	0.3 B-1.8	T150	15	110	34	2.5
756231020	756230010-H	100:5	1.5	10	19	0.3 B-1.8	T150	15	110	34	2.5
756231030	756230011-H	150:5	1.5	15	28.5	0.3 B-1.8	T150	15	110	34	2.5
756231040	756230012-H	200:5	1.5	20	38	0.3 B-1.8	T150	15	110	34	2.5
756231060	756230013-H	300:5	1.5	30	57	0.3 B-1.8	T150	15	110	34	2.5
756231080	756230014-H	400:5	1.5	40	76	0.3 B-1.8	T150	15	110	34	2.5
756231120	756230015-H	600:5	1.5	60	86.7	0.3 B-1.8	T150	15	110	34	2.5
756231160	756230016-H	800:5	1.5	60	114	0.3 B-1.8	T150	15	110	34	2.5
756231200	756230017-H	1000:5	1.2	75	142.5	0.3 B-1.8	T150	15	110	34	2.5
756231240	756230018-H	1200:5	1.0	90	171	0.3 B-1.8	T150	15	110	34	2.5
756232002	756230030-H	10/20:5	2.0/1.5	2	3.8	0.3B-0.5/0.3B-1.8	T75/T150	15	110	34	2.5
756232005	756230031-H	25/50:5	2.0/1.5	5	9.5	0.3B-0.5/0.3B-1.8	T75/T150	15	110	34	2.5
756232006	756230032-H	30/60:5	2.0/1.5	6	11.4	0.3B-0.5/0.3B-1.8	T75/T150	15	110	34	2.5
756232010	756230033-H	50/100:5	2.0/1.5	10	19	0.3B-0.5/0.3B-1.8	T75/T150	15	110	34	2.5
756232015	756230034-H	75/150:5	2.0/1.5	15	28.5	0.3B-0.5/0.3B-1.8	T75/T150	15	110	34	2.5
756232020	756230035-H	100/200:5	2.0/1.5	20	38	0.3B-0.5/0.3B-1.8	T75/T150	15	110	34	2.5
756232030	756230036-H	150:300:5	2.0/1.5	30	57	0.3B-0.5/0.3B-1.8	T75/T150	15	110	34	2.5
756232040	756230037-H	200/400:5	2.0/1.5	40	76	0.3B-0.5/0.3B-1.8	T75/T150	15	110	34	2.5
756232060	756230038-H	300/600:5	2.0/1.5	60	86.7	0.3B-0.5/0.3B-1.8	T75/T150	15	110	34	2.5
756232080	756230039-H	400/800:5	1.2/1.2	60	114	0.3B-0.5/0.3B-1.8	T75/T150	15	110	34	2.5
756232100	756230040-H	500/1000:5	1.0/1.0	75	142.5	0.3B-0.5/0.3B-1.8	T75/T150	15	110	34	2.5
756232120	756230041-H	600/1200:5	1.0/1.0	90	171	0.3B-0.5/0.3B-1.8	T75/T150	15	110	34	2.5
756239001	756230080-H	5:5	1.5	0.5	0.95	0.15B-0.9	-	15	110	34	2.5
756239002	756230081-H	10:5	1.5	1	1.9	0.15B-0.9	-	15	110	34	2.5
756239010	756230082-H	50:5	1.5	5	9.5	0.15B-0.9	-	15	110	34	2.5
756239015	756230083-H	75:5	1.5	7.5	14.25	0.15B-0.9	-	15	110	34	2.5
756239020	756230084-H	100:5	1.5	10	19	0.15B-0.9	-	15	110	34	2.5
756239040	756230085-H	200:5	1.5	20	38	0.15B-0.9	-	15	110	34	2.5
756239060	756230086-H	300:5	1.5	30	57	0.15B-0.9	-	15	110	34	2.5
756239120	756230087-H	600:5	1.5	60	86.7	0.15B-0.9	-	15	110	34	2.5
756239160	756230088-H	800:5	1.5	60	114	0.15B-0.9	-	15	110	34	2.5
756239200	756230089-H	1000:5	1.2	75	142.5	0.15B-0.9	-	15	110	34	2.5
756239240	756230090-H	1200:5	1.0	90	171	0.15B-0.9	-	15	110	34	2.5
756238001	756230100-H	5/10:5	2.0/1.5	1	1.9	0.15B-0.5/0.15B0.09	-	15	110	34	2.5
756238002	756230101-H	10/20:5	2.0/1.5	2	3.8	0.15B-0.5/0.15B0.09	-	15	110	34	2.5
756238060	756230102-H	300/600:5	2.0/1.5	60	86.7	0.15B-0.5/0.15B0.09	-	15	110	34	2.5
756238080	756230103-H	400/800:5	1.2/1.2	60	114	0.15B-0.5/0.15B0.09	-	15	110	34	2.5
756238100	756230104-H	500/1000:5	1.0/1.0	75	142.5	0.15B-0.5/0.15B0.09	-	15	110	34	2.5
756238120	756230105-H	600/1200:5	1.0/1.0	90	171	0.15B-0.5/0.15B0.09	-	15	110	34	2.5

CRE-17

15 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
Shorting Link											
756234001	756230050-H	5:5	1.5	0.5	0.95	0.3 B-1.8	T150	15	110	34	2.5
756234002	756230051-H	10:5	1.5	1	1.9	0.3 B-1.8	T150	15	110	34	2.5
756234003	756230052-H	15:5	1.5	1.5	2.85	0.3 B-1.8	T150	15	110	34	2.5
756234004	756230053-H	20:5	1.5	2	3.8	0.3 B-1.8	T150	15	110	34	2.5
756234005	756230054-H	25:5	1.5	2.5	4.75	0.3 B-1.8	T150	15	110	34	2.5
756234006	756230055-H	30:5	1.5	3	5.7	0.3 B-1.8	T150	15	110	34	2.5
756234008	756230056-H	40:5	1.5	4	7.6	0.3 B-1.8	T150	15	110	34	2.5
756234010	756230057-H	50:5	1.5	5	9.5	0.3 B-1.8	T150	15	110	34	2.5
756234012	756230058-H	60:5	1.5	6	11.4	0.3 B-1.8	T150	15	110	34	2.5
756234015	756230059-H	75:5	1.5	7.5	14.25	0.3 B-1.8	T150	15	110	34	2.5
756234020	756230060-H	100:5	1.5	10	19	0.3 B-1.8	T150	15	110	34	2.5
756234030	756230061-H	150:5	1.5	15	28.5	0.3 B-1.8	T150	15	110	34	2.5
756234040	756230062-H	200:5	1.5	20	38	0.3 B-1.8	T150	15	110	34	2.5
756234060	756230063-H	300:5	1.5	30	57	0.3 B-1.8	T150	15	110	34	2.5
756234080	756230064-H	400:5	1.5	40	76	0.3 B-1.8	T150	15	110	34	2.5
756234120	756230065-H	600:5	1.5	60	86.7	0.3 B-1.8	T150	15	110	34	2.5
756234160	756230066-H	800:5	1.5	60	114	0.3 B-1.8	T150	15	110	34	2.5
756234200	756230067-H	1000:5	1.2	75	142.5	0.3 B-1.8	T150	15	110	34	2.5
756234240	756230068-H	1200:5	1.0	90	171	0.3 B-1.8	T150	15	110	34	2.5
High Accuracy Extended Range 5% nominal current to Rating Factor											
756237001	756230130-H	5:5	1.5	0.5	0.95	0.15S B-0.9	-	15	110	34	2.5
756237002	756230131-H	10:5	1.5	1	1.9	0.15S B-0.9	-	15	110	34	2.5
756237010	756230132-H	50:5	1.5	5	9.5	0.15S B-0.9	-	15	110	34	2.5
756237015	756230133-H	75:5	1.5	7.5	14.25	0.15S B-0.9	-	15	110	34	2.5
756237020	756230134-H	100:5	1.5	10	19	0.15S B-0.9	-	15	110	34	2.5
756237040	756230135-H	200:5	1.5	20	38	0.15S B-0.9	-	15	110	34	2.5
756237060	756230136-H	300:5	1.5	30	57	0.15S B-0.9	-	15	110	34	2.5
756237120	756230137-H	600:5	1.5	60	86.7	0.15S B-0.9	-	15	110	34	2.5
756237160	756230138-H	800:5	1.5	60	114	0.15S B-0.9	-	15	110	34	2.5
756237200	756230139-H	1000:5	1.2	75	142.5	0.15S B-0.9	-	15	110	34	2.5
756237240	756230140-H	1200:5	1.0	90	171	0.15S B-0.9	-	15	110	34	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
756236040	756230160-H	200:5	2.0	20	38	0.15 B-1.8	-	15	110	34	2.5
756236120	756230161-H	600:5	1.5	60	86.7	0.15 B-1.8	-	15	110	34	2.5
756236200	756230162-H	1000:5	1.5	75	142.5	0.15 B-1.8	-	15	110	34	2.5
756236240	756230163-H	1200:5	1.2	90	171	0.15 B-1.8	-	15	110	34	2.5

Additional ratings available upon request.

CRE-17

15 kV CURRENT TRANSFORMER

Notes:

arteche

CRFR-17

15 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE CRFR series are dry type outdoor service voltage transformers.

The core and coils are encapsulated with Cycloaliphatic Epoxy Resin (CEP) which provides excellent dielectric properties, mechanical strength, resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life.

CRFR family can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which additionally increases the transformer's weatherability and offers better performance in heavily polluted environments. The transformer is maintenance free.

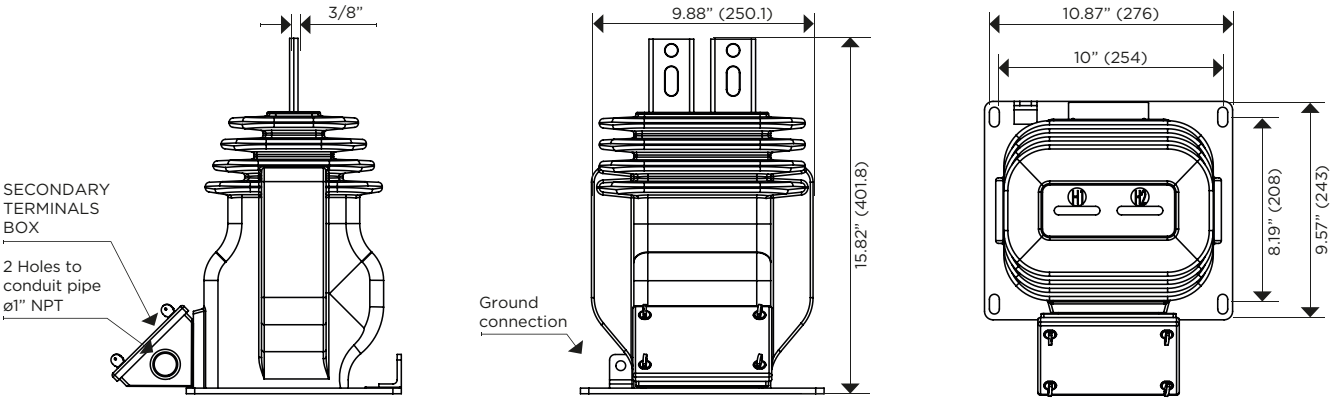
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE requirements.

This current transformer is designed for mounting on poles or substation structures in an upright, underhung or cantilever position.

Mechanical characteristics

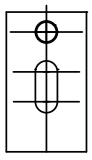
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	66	20.6	8.5



Drawing number: 4288894

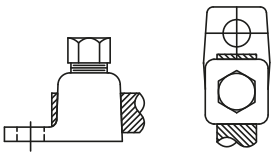
CONNECTIONS

PRIMARY TERMINAL



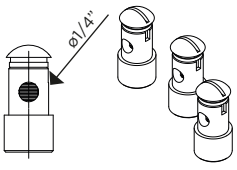
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

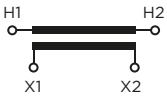
SECONDARY TERMINAL



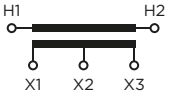
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

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15 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756330001	756330090-H	5:5	1.5	0.5	0.95	0.3B-1.8	T200	15	110	34	2.5
756330002	756330091-H	10:5	1.5	1	1.9	0.3B-1.8	T200	15	110	34	2.5
756330003	756330092-H	15:5	1.5	1.5	2.85	0.3B-1.8	T200	15	110	34	2.5
756330004	756330093-H	20:5	1.5	2	3.8	0.3B-1.8	T200	15	110	34	2.5
756330005	756330094-H	25:5	1.5	2.5	4.75	0.3B-1.8	T200	15	110	34	2.5
756330006	756330095-H	30:5	1.5	3	5.7	0.3B-1.8	T200	15	110	34	2.5
756330007	756330096-H	40:5	1.5	4	7.6	0.3B-1.8	T200	15	110	34	2.5
756330008	756330097-H	50:5	1.5	5	9.5	0.3B-1.8	T200	15	110	34	2.5
756330009	756330098-H	60:5	1.5	6	11.4	0.3B-1.8	T200	15	110	34	2.5
756330010	756330099-H	75:5	1.5	7.5	14.25	0.3B-1.8	T200	15	110	34	2.5
756330011	756330100-H	100:5	1.5	10	19	0.3B-1.8	T200	15	110	34	2.5
756330012	756330101-H	150:5	1.5	15	37.5	0.3B-1.8	T200	15	110	34	2.5
756330013	756330102-H	200:5	1.5	20	50	0.3B-1.8	T200	15	110	34	2.5
756330014	756330103-H	300:5	1.5	30	75	0.3B-1.8	T200	15	110	34	2.5
756330015	756330104-H	400:5	1.5	40	100	0.3B-1.8	T200	15	110	34	2.5
756330016	756330105-H	600:5	1.5	60	86.7	0.3B-1.8	T200	15	110	34	2.5
756330017	756330106-H	800:5	1.5	60	114	0.3B-1.8	T200	15	110	34	2.5
756330018	756330107-H	1000:5	1.5	75	142.5	0.3B-1.8	T200	15	110	34	2.5
756330019	756330108-H	1200:5	1.5	90	171	0.3B-1.8	T200	15	110	34	2.5
756330020	756330109-H	5/10:5	2.0/1.5	1	1.9	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756330021	756330110-H	10/20:5	2.0/1.5	2	3.8	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756330022	756330111-H	20/40:5	2.0/1.5	4	7.6	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756330023	756330112-H	25/50:5	2.0/1.5	5	9.5	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756330024	756330113-H	30/60:5	2.0/1.5	6	11.4	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756330025	756330114-H	50/100:5	2.0/1.5	10	19	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756330026	756330115-H	75/150:5	2.0/1.5	15	28.5	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756330027	756330116-H	100/200:5	2.0/1.5	20	38	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756330028	756330117-H	150/300:5	2.0/1.5	30	57	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756330029	756330118-H	200/400:5	2.0/1.5	40	76	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756330030	756330119-H	300/600:5	2.0/1.5	60	86.7	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756330031	756330120-H	400/800:5	2.0/1.5	60	114	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756330032	756330121-H	500/1000:5	2.0/1.5	75	142.5	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756330033	756330122-H	600/1200:5	2.0/1.5	90	171	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756330034	756330123-H	5:5	1.5	0.5	0.95	0.15B-0.9	-	15	110	34	2.5
756330035	756330124-H	10:5	1.5	1	1.9	0.15B-0.9	-	15	110	34	2.5
756330036	756330125-H	15:5	1.5	1.5	2.85	0.15B-0.9	-	15	110	34	2.5
756330037	756330126-H	20:5	1.5	2	3.8	0.15B-0.9	-	15	110	34	2.5
756330038	756330127-H	25:5	1.5	2.5	4.75	0.15B-0.9	-	15	110	34	2.5
756330039	756330128-H	30:5	1.5	3	5.7	0.15B-0.9	-	15	110	34	2.5
756330040	756330129-H	40:5	1.5	4	7.6	0.15B-0.9	-	15	110	34	2.5
756330041	756330130-H	50:5	1.5	5	9.5	0.15B-0.9	-	15	110	34	2.5
756330042	756330131-H	60:5	1.5	6	11.4	0.15B-0.9	-	15	110	34	2.5
756330043	756330132-H	75:5	1.5	7.5	14.25	0.15B-0.9	-	15	110	34	2.5
756330044	756330133-H	100:5	1.5	10	19	0.15B-0.9	-	15	110	34	2.5
756330045	756330134-H	150:5	1.5	15	37.5	0.15B-0.9	-	15	110	34	2.5
756330046	756330135-H	200:5	1.5	20	50	0.15B-0.9	-	15	110	34	2.5
756330047	756330136-H	300:5	1.5	30	75	0.15B-0.9	-	15	110	34	2.5
756330048	756330137-H	400:5	1.5	40	100	0.15B-0.9	-	15	110	34	2.5

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15 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756330049	756330138-H	600:5	1.5	60	86.7	0.15B-0.9	-	15	110	34	2.5
756330050	756330139-H	800:5	1.33	60	114	0.15B-0.9	-	15	110	34	2.5
756330051	756330140-H	1000:5	1.5	75	142.5	0.15B-0.9	-	15	110	34	2.5
756330052	756330141-H	1200:5	1.5	90	171	0.15B-0.9	-	15	110	34	2.5
756330053	756330142-H	5/10:5	2.0/1.5	1	1.9	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756330054	756330143-H	10/20:5	2.0/1.5	2	3.8	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756330055	756330144-H	20/40:5	2.0/1.5	4	7.6	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756330056	756330145-H	25/50:5	2.0/1.5	5	9.5	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756330057	756330146-H	30/60:5	2.0/1.5	6	11.4	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756330058	756330147-H	50/100:5	2.0/1.5	10	19	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756330059	756330148-H	75/150:5	2.0/1.5	15	28.5	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756330060	756330149-H	100/200:5	2.0/1.5	20	38	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756330061	756330150-H	150/300:5	2.0/1.5	30	57	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756330062	756330151-H	200/400:5	2.0/1.5	40	76	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756330063	756330152-H	300/600:5	2.0/1.5	60	86.7	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756330064	756330153-H	400/800:5	2.0/1.5	60	114	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756330065	756330154-H	500/1000:5	2.0/1.5	75	142.5	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756330066	756330155-H	600/1200:5	2.0/1.5	90	171	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
High Accuracy Extended Range 5% nominal current to Rating Factor											
756330067	756330156-H	5:5	1.5	0.5	0.95	0.15SB-0.9	-	15	110	34	2.5
756330068	756330157-H	10:5	1.5	1	1.9	0.15SB-0.9	-	15	110	34	2.5
756330069	756330158-H	15:5	1.5	1.5	2.85	0.15SB-0.9	-	15	110	34	2.5
756330070	756330159-H	20:5	1.5	2	3.8	0.15SB-0.9	-	15	110	34	2.5
756330071	756330160-H	25:5	1.5	2.5	4.75	0.15SB-0.9	-	15	110	34	2.5
756330072	756330161-H	30:5	1.5	3	5.7	0.15SB-0.9	-	15	110	34	2.5
756330073	756330162-H	40:5	1.5	4	7.6	0.15SB-0.9	-	15	110	34	2.5
756330074	756330163-H	50:5	1.5	5	9.5	0.15SB-0.9	-	15	110	34	2.5
756330075	756330164-H	60:5	1.5	6	11.4	0.15SB-0.9	-	15	110	34	2.5
756330076	756330165-H	75:5	1.5	7.5	14.25	0.15SB-0.9	-	15	110	34	2.5
756330077	756330166-H	100:5	1.5	10	19	0.15SB-0.9	-	15	110	34	2.5
756330078	756330167-H	150:5	1.5	15	37.5	0.15SB-0.9	-	15	110	34	2.5
756330079	756330168-H	200:5	1.5	20	50	0.15SB-0.9	-	15	110	34	2.5
756330080	756330169-H	300:5	1.5	30	75	0.15SB-0.9	-	15	110	34	2.5
756330081	756330170-H	400:5	1.5	40	100	0.15SB-0.9	-	15	110	34	2.5
756330082	756330171-H	600:5	1.5	60	86.7	0.15SB-0.9	-	15	110	34	2.5
756330083	756330172-H	800:5	1.33	60	114	0.15SB-0.9	-	15	110	34	2.5
756330084	756330173-H	1000:5	1.5	75	142.5	0.15SB-0.9	-	15	110	34	2.5
756330085	756330174-H	1200:5	1.5	90	171	0.15SB-0.9	-	15	110	34	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
756330086	756330175-H	200:5	1.5	10	19	0.15 B-1.8	-	15	110	34	2.5
756330087	756330176-H	600:5	1.5	10	19	0.15 B-1.8	-	15	110	34	2.5
756330088	756330177-H	1000:5	1.5	60	114	0.15 B-1.8	-	15	110	34	2.5
756330089	756330178-H	1200:5	1.5	90	171	0.15 B-1.8	-	15	110	34	2.5

Additional ratings available upon request.

CRFR-17

15 kV CURRENT TRANSFORMER

Notes:

CRF-17

15 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE CR series are dry type outdoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

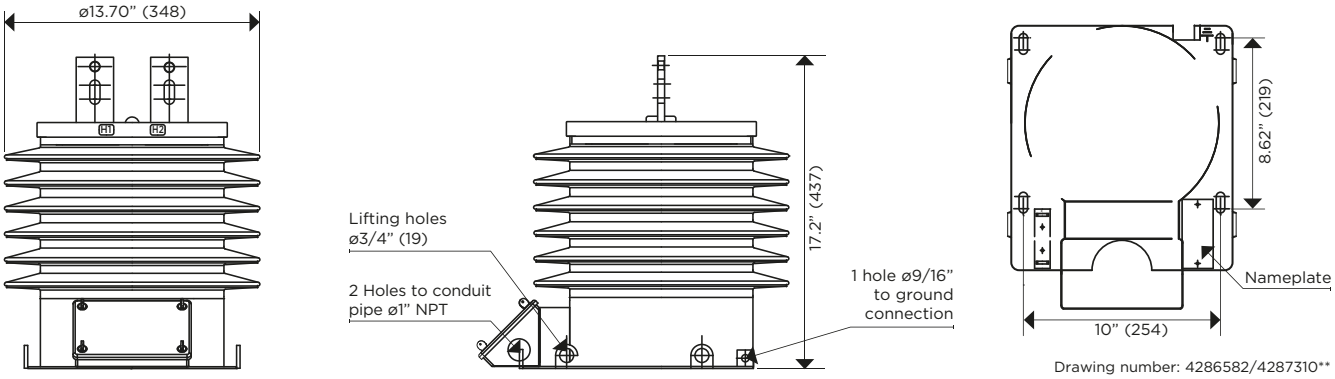
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

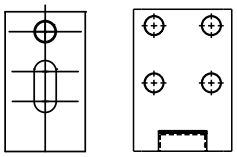
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	112.4	27.55	12



Drawing number: 4286582/4287310**

CONNECTIONS

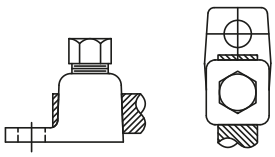
PRIMARY TERMINAL



Type: NEMA-2
Material: Copper

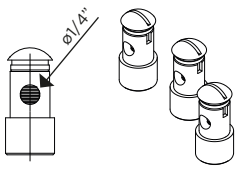
Type: NEMA-4
Material: Copper
**

GROUND CONNECTOR



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

SECONDARY TERMINAL

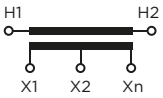


Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY

ONE SECONDARY with tap



NEMA 2 THICKNESS	3/8"	1/2"	3/4"
AMPERES	0 TO 1200	1201 TO 1500	1501 TO 2000

Approximate dimensions in inches (mm).

CRF-17

15 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756191001	756190000-H	5:5	1.5	0.5	0.95	0.3B-1.8	T200	15	110	34	2.5
756191002	756190001-H	10:5	1.5	1	1.9	0.3B-1.8	T200	15	110	34	2.5
756191003	756190002-H	15:5	1.5	1.5	2.85	0.3B-1.8	T200	15	110	34	2.5
756191004	756190003-H	20:5	1.5	2	3.8	0.3B-1.8	T200	15	110	34	2.5
756191005	756190004-H	25:5	1.5	2.5	4.75	0.3B-1.8	T200	15	110	34	2.5
756191006	756190005-H	30:5	1.5	3	5.7	0.3B-1.8	T200	15	110	34	2.5
756191008	756190006-H	40:5	1.5	4	7.6	0.3B-1.8	T200	15	110	34	2.5
756191010	756190007-H	50:5	1.5	5	9.5	0.3B-1.8	T200	15	110	34	2.5
756191012	756190008-H	60:5	1.5	6	11.4	0.3B-1.8	T200	15	110	34	2.5
756191015	756190009-H	75:5	1.5	7.5	14.25	0.3B-1.8	T200	15	110	34	2.5
756191020	756190010-H	100:5	1.5	10	19	0.3B-1.8	T200	15	110	34	2.5
756191030	756190011-H	150:5	1.5	15	37.5	0.3B-1.8	T200	15	110	34	2.5
756191040	756190012-H	200:5	1.5	20	50	0.3B-1.8	T200	15	110	34	2.5
756191060	756190013-H	300:5	1.5	30	75	0.3B-1.8	T200	15	110	34	2.5
756191080	756190014-H	400:5	1.5	40	100	0.3B-1.8	T200	15	110	34	2.5
756191120	756190015-H	600:5	1.5	60	86.7	0.3B-1.8	T200	15	110	34	2.5
756191160	756190016-H	800:5	1.2	60	114	0.3B-1.8	T200	15	110	34	2.5
756191200	756190017-H	1000:5	1.0	75	142.5	0.3B-1.8	T200	15	110	34	2.5
756191240	756190018-H	1200:5	1.0	90	171	0.3B-1.8	T200	15	110	34	2.5
756192001	756190030-H	5/10:5	2.0/1.5	1	1.9	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756192002	756190031-H	10/20:5	2.0/1.5	2	3.8	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756192005	756190032-H	25/50:5	2.0/1.5	5	9.5	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756192006	756190033-H	30/60:5	2.0/1.5	6	11.4	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756192010	756190034-H	50/100:5	2.0/1.5	10	19	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756192015	756190035-H	75/150:5	2.0/1.5	15	28.5	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756192020	756190036-H	100/200:5	2.0/1.5	20	38	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756192030	756190037-H	150/300:5	2.0/1.5	30	57	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756192040	756190038-H	200/400:5	2.0/1.5	40	76	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756192060	756190039-H	300/600:5	2.0/1.5	60	86.7	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756192080	756190040-H	400/800:5	1.2/1.2	60	114	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756192100	756190041-H	500/1000:5	1.0/1.0	75	142.5	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756192120	756190042-H	600/1200:5	1.0/1.0	90	171	0.3B-0.9/0.3B-1.8	T100/200	15	110	34	2.5
756199001	756190043-H	5:5	1.5	0.5	0.95	0.15B-0.9	-	15	110	34	2.5
756199002	756190044-H	10:5	1.5	1	1.9	0.15B-0.9	-	15	110	34	2.5
756199010	756190045-H	50:5	1.5	5	9.5	0.15B-0.9	-	15	110	34	2.5
756199015	756190046-H	75:5	1.5	7.5	14.25	0.15B-0.9	-	15	110	34	2.5
756199040	756190047-H	100:5	1.5	10	19	0.15B-0.9	-	15	110	34	2.5
756199120	756190048-H	600:5	1.5	10	19	0.15B-0.9	-	15	110	34	2.5
756199160	756190049-H	800:5	1.2	60	86.7	0.15B-0.9	-	15	110	34	2.5
756199200	756190050-H	1000:5	1.0	60	114	0.15B-0.9	-	15	110	34	2.5
756199240	756190051-H	1200:5	1.0	90	171	0.15B-0.9	-	15	110	34	2.5
756198001	756190052-H	5/10:5	2.0/1.5	1	1.9	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756198002	756190053-H	10/20:5	2.0/1.5	2	3.8	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756198060	756190054-H	300/600:5	2.0/1.5	60	86.7	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756198080	756190055-H	400/800:5	1.2/1.2	60	114	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756198100	756190056-H	500/1000:5	1.0/1.0	75	142.5	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5
756198120	756190057-H	600/1200:5	1.0/1.0	90	171	0.15B-0.5/0.15B-0.9	-	15	110	34	2.5

CRF-17

15 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
High Accuracy Extended Range 5% nominal current to Rating Factor											
756197001	756190061-H	5:5	2.0	0.5	0.95	0.15S B-0.5	-	15	110	34	2.5
756197002	756190062-H	10:5	2.0	1	1.9	0.15S B-0.5	-	15	110	34	2.5
756197010	756190063-H	50:5	2.0	5	9.5	0.15S B-0.5	-	15	110	34	2.5
756197015	756190064-H	75:5	2.0	7.5	14.25	0.15S B-0.5	-	15	110	34	2.5
756197100	756190065-H	100:5	2.0	10	19	0.15S B-0.5	-	15	110	34	2.5
756197120	756190066-H	600:5	2.0	10	19	0.15S B-0.5	-	15	110	34	2.5
756197160	756190067-H	800:5	1.5	60	86.7	0.15S B-0.9	-	15	110	34	2.5
756197200	756190068-H	1000:5	1.2	60	114	0.15S B-0.9	-	15	110	34	2.5
756197240	756190069-H	1200:5	1.2	90	171	0.15S B-0.9	-	15	110	34	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
756196040	756190091-H	200:5	4.0	10	19	0.15 B-1.8	-	15	110	34	2.5
756196120	756190092-H	600:5	3.0	10	19	0.15 B-1.8	-	15	110	34	2.5
756196200	756190093-H	1000:5	2.0	60	114	0.15 B-1.8	-	15	110	34	2.5
756196240	756190094-H	1200:5	1.5	90	171	0.15 B-1.8	-	15	110	34	2.5

Additional ratings available upon request.

Notes: .....

CPE-15

15 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

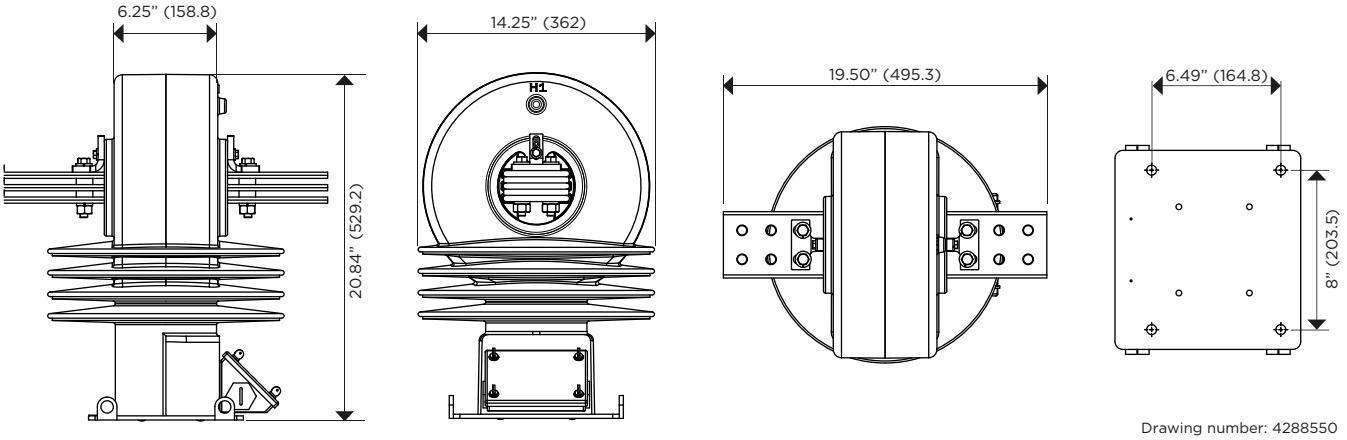
ARTECHE CPE series are dry type outdoor service window type current transformers.

The core and coils are encapsulated with Cycloaliphatic Epoxy Resin (CEP) which provides excellent dielectric properties, mechanical strength,resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. CPE family can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which additionally increases the transformers weatherability and offers better performance in heavily polluted environments. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copperplate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

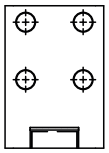
Mechanical characteristics				
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	178.5	35.43	8.39



Drawing number: 4288550

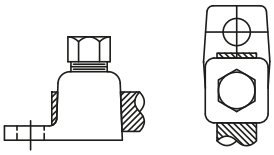
CONNECTIONS

PRIMARY TERMINAL



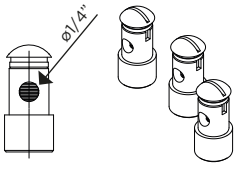
Type: NEMA-4
Material: Copper

GROUND CONNECTOR



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

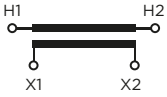
SECONDARY TERMINAL



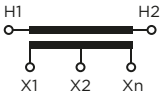
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

CPE-15

15 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Highest Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)		Dimensional Drawing Number CEP resin	Dimensional Drawing number for HCEP resin	Type
										Power frequency applied voltage test (kV_{rms})	Power frequency secondary applied voltage test (kV_{rms})			
756520001	756520052-H	200:5	3.0	16	43.2	0.3B0.2	C50	15	110	34	2.5	4288550	4288980	Bar (1)
756520002	756520053-H	300:5	2.0	24	64.8	0.3B0.5	C100	15	110	34	2.5	4288550	4288980	Bar (1)
756520003	756520054-H	400:5	2.0	32	86.4	0.3B0.9	C100	15	110	34	2.5	4288550	4288980	Bar (1)
756520004	756520055-H	500:5	2.0	40	108	0.3B1.8	C150	15	110	34	2.5	4288550	4288980	Bar (1)
756520005	756520056-H	600:5	2.0	48	129.6	0.3B1.8	C200	15	110	34	2.5	4288550	4288980	Bar (1)
756520006	756520057-H	800:5	2.0	64	172.8	0.3B1.8	C200	15	110	34	2.5	4288550	4288980	Bar (2)
756520007	756520058-H	1000:5	2.0	80	216	0.3B1.8	C250	15	110	34	2.5	4288550	4288980	Bar (2)
756520008	756520059-H	1200:5	2.0	96	259.2	0.3B1.8	C250	15	110	34	2.5	4288550	4288980	Bar (2)
756520009	756520060-H	1500:5	2.0	120	324	0.3B1.8	C300	15	110	34	2.5	4288550	4288980	Bar (3)
756520010	756520061-H	2000:5	2.0	160	432	0.3B1.8	C400	15	110	34	2.5	4288550	4288980	Bar (3)
756520011	756520062-H	2500:5	2.0	200	540	0.3B1.8	C400	15	110	34	2.5	4288550	4288980	Bar (3)
756520012	756520063-H	3000:5	2.0	240	648	0.3B1.8	C400	15	110	34	2.5	4288866	4289801	Bar (4)
756520013	756520064-H	4000:5	1.5	320	864	0.3B1.8	C800	15	110	34	2.5	4288866	4289801	Bar (4)
756520014	756520065-H	5000:5	1.5	400	1080	0.3B1.8	C800	15	110	34	2.5	4288866	4289801	Bar (4)
756520015	756520066-H	200/400:5	3.0/3.0	32	86.4	0.3B0.2/B0.9	C50/ C100	15	110	34	2.5	4288550	4288980	Bar (1)
756520016	756520067-H	300/600:5	2.0/2.0	48	129.6	0.3B0.5/B1.8	C100/ C200	15	110	34	2.5	4288550	4288980	Bar (1)
756520017	756520068-H	400/800:5	2.0/2.0	64	172.8	0.3B0.9/B1.8	C100/ C200	15	110	34	2.5	4288550	4288980	Bar (2)
756520018	756520069-H	500/1000:5	2.0/2.0	8	21.6	0.3B0.9/B1.8	C100/ C200	15	110	34	2.5	4288550	4288980	Bar (2)
756520019	756520070-H	600/1200:5	2.0/2.0	96	259.2	0.3B1.8/B1.8	C150/ C300	15	110	34	2.5	4288550	4288980	Bar (2)
756520020	756520071-H	750/1500:5	2.0/2.0	120	324	0.3B1.8/B1.8	C200/ C400	15	110	34	2.5	4288550	4288980	Bar (3)
756520021	756520072-H	800/1600:5	2.0/2.0	128	345.6	0.3B1.8/B1.8	C200/ C400	15	110	34	2.5	4288550	4288980	Bar (3)
756520022	756520073-H	1000/2000:5	2.0/2.0	160	432	0.3B1.8/B1.8	C200/ C400	15	110	34	2.5	4288550	4288980	Bar (3)
756520023	756520074-H	1500/3000:5	2.0/2.0	240	648	0.3B1.8/B1.8	C300/ C600	15	110	34	2.5	4288866	4289801	Bar (4)
756520024	756520075-H	2000/4000:5	2.0/1.5	320	864	0.3B1.8/B1.8	C400/ C800	15	110	34	2.5	4288866	4289801	Bar (4)
756520025	756520076-H	2500/5000:5	2.0/1.5	400	1080	0.3B1.8/B1.8	C400/ C800	15	110	34	2.5	4288866	4289801	Bar (4)
756520029	756520080-H	200:5	4.0	16	43.2	0.15S B0.1/0.3B0.2	--	15	110	34	2.5	4288550	4288980	Bar (1)
756520030	756520081-H	300:5	4.0	24	64.8	0.15S B0.5/0.3B0.9	--	15	110	34	2.5	4288550	4288980	Bar (1)
756520031	756520082-H	400:5	4.0	32	86.4	0.15S B0.9/0.3B1.8	--	15	110	34	2.5	4288550	4288980	Bar (2)
756520032	756520083-H	500:5	4.0	40	108	0.15S B0.9/0.3B1.8	--	15	110	34	2.5	4288550	4288980	Bar (2)
756520033	756520084-H	600:5	4.0	48	129.6	0.15S B0.9/0.3B1.8	--	15	110	34	2.5	4288550	4288980	Bar (2)
756520034	756520085-H	800:5	4.0	64	172.8	0.15S B0.9/0.3B1.8	--	15	110	34	2.5	4288550	4288980	Bar (3)
756520035	756520086-H	1000:5	4.0	80	216	0.15S B1.8/0.15B1.8	--	15	110	34	2.5	4288550	4288980	Bar (3)
756520036	756520087-H	1200:5	4.0	96	259.2	0.15S B1.8/0.15B1.8	--	15	110	34	2.5	4288550	4288980	Bar (3)

CPE-15

15 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Highest Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)		Dimensional Drawing Number CEP resin	Dimensional Drawing number for HCEP resin	Type
										Power frequency applied voltage test (kV_{rms})	Power frequency secondary applied voltage test (kV_{rms})			
756520037	756520088-H	1500:5	3.0	120	324	0.15S B1.8/0.15B1.8	--	15	110	34	2.5	4288550	4288980	Bar (3)
756520038	756520089-H	2000:5	2.0	160	432	0.15S B1.8/0.15B1.8	--	15	110	34	2.5	4288550	4288980	Bar (3)
756520042	756520093-H	500:5	4.0	40	108	0.15 B0.9/0.3B1.8*	--	15	110	34	2.5	4288550	4288980	Bar (2)
756520043	756520094-H	600:5	4.0	48	129.6	0.15 B0.9/0.3B1.8*	--	15	110	34	2.5	4288550	4288980	Bar (2)
756520044	756520095-H	800:5	4.0	64	172.8	0.15 B1.8/0.3B1.8*	--	15	110	34	2.5	4288550	4288980	Bar (3)
756520045	756520096-H	1000:5	4.0	80	216	0.15 B1.8/0.3B1.8*	--	15	110	34	2.5	4288550	4288980	Bar (3)
756520046	756520097-H	1200:5	4.0	96	259.2	0.15 B1.8/0.3B1.8*	--	15	110	34	2.5	4288550	4288980	Bar (3)
756520047	756520098-H	1500:5	3.0	120	324	0.15 B1.8/0.3B1.8*	--	15	110	34	2.5	4288550	4288980	Bar (3)
756520048	756520099-H	2000:5	2.0	160	432	0.15 B1.8/0.3B1.8*	--	15	110	34	2.5	4288550	4288980	Bar (3)
756520109	756520154-H	200:5	3.0	16	43.2	0.3B0.2	C50	15	110	34	2.5	4288951	4288979	Window
756520110	756520155-H	300:5	2.0	24	64.8	0.3B0.5	C100	15	110	34	2.5	4288951	4288979	Window
756520111	756520156-H	400:5	2.0	32	86.4	0.3B0.9	C100	15	110	34	2.5	4288951	4288979	Window
756520112	756520157-H	500:5	2.0	40	108	0.3B1.8	C150	15	110	34	2.5	4288951	4288979	Window
756520113	756520158-H	600:5	2.0	48	129.6	0.3B1.8	C200	15	110	34	2.5	4288951	4288979	Window
756520114	756520159-H	800:5	2.0	64	172.8	0.3B1.8	C200	15	110	34	2.5	4288951	4288979	Window
756520115	756520160-H	1000:5	2.0	80	216	0.3B1.8	C250	15	110	34	2.5	4288951	4288979	Window
756520116	756520161-H	1200:5	2.0	96	259.2	0.3B1.8	C250	15	110	34	2.5	4288951	4288979	Window
756520117	756520162-H	1500:5	2.0	120	324	0.3B1.8	C300	15	110	34	2.5	4288951	4288979	Window
756520118	756520163-H	2000:5	2.0	160	432	0.3B1.8	C400	15	110	34	2.5	4288951	4288979	Window
756520119	756520164-H	2500:5	2.0	200	540	0.3B1.8	C400	15	110	34	2.5	4288951	4288979	Window
756520120	756520165-H	3000:5	2.0	240	648	0.3B1.8	C400	15	110	34	2.5	4288951	4288979	Window
756520121	756520166-H	4000:5	1.5	320	864	0.3B1.8	C800	15	110	34	2.5	4288951	4288979	Window
756520122	756520167-H	5000:5	1.5	400	1080	0.3B1.8	C800	15	110	34	2.5	4288951	4288979	Window
756520123	756520168-H	200/400:5	3.0/3.0	32	86.4	0.3B0.2/B0.9	C50/ C100	15	110	34	2.5	4288951	4288979	Window
756520124	756520169-H	300/600:5	2.0/2.0	48	129.6	0.3B0.5/B1.8	C100/ C200	15	110	34	2.5	4288951	4288979	Window
756520125	756520170-H	400/800:5	2.0/2.0	64	172.8	0.3B0.9/B1.8	C100/ C200	15	110	34	2.5	4288951	4288979	Window
756520126	756520171-H	500/1000:5	2.0/2.0	8	21.6	0.3B0.9/B1.8	C100/ C200	15	110	34	2.5	4288951	4288979	Window
756520127	756520172-H	600/1200:5	2.0/2.0	96	259.2	0.3B1.8/B1.8	C150/ C300	15	110	34	2.5	4288951	4288979	Window
756520128	756520173-H	750/1500:5	2.0/2.0	120	324	0.3B1.8/B1.8	C200/ C400	15	110	34	2.5	4288951	4288979	Window
756520129	756520174-H	800/1600:5	2.0/2.0	128	345.6	0.3B1.8/B1.8	C200/ C400	15	110	34	2.5	4288951	4288979	Window
756520130	756520175H-	1000/2000:5	2.0/2.0	160	432	0.3B1.8/B1.8	C200/ C400	15	110	34	2.5	4288951	4288979	Window
756520131	756520176-H	1500/3000:5	2.0/2.0	240	648	0.3B1.8/B1.8	C300/ C600	15	110	34	2.5	4288951	4288979	Window
756520132	756520177-H	2000/4000:5	2.0/1.5	320	864	0.3B1.8/B1.8	C400/ C800	15	110	34	2.5	4288951	4288979	Window

* Accuracy range: 1% to RF HAER

CPE-15

15 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Highest Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)		Dimensional Drawing Number CEP resin	Dimensional Drawing number for HCEP resin	Type
										Power frequency applied voltage test (kV_{rms})	Power frequency secondary applied voltage test (kV_{rms})			
756520133	756520178-H	2500/5000:5	2.0/1.5	400	1080	0.3B1.8/B1.8	C400/C800	15	110	34	2.5	4288951	4288979	Window
756520134	756520179-H	200:5	4.0	16	43.2	0.15S B0.1/0.3B0.2	--	15	110	34	2.5	4288951	4288979	Window
756520135	756520180-H	300:5	4.0	24	64.8	0.15S B0.5/0.3B0.9	--	15	110	34	2.5	4288951	4288979	Window
756520136	756520181-H	400:5	4.0	32	86.4	0.15S B0.9/0.3B1.8	--	15	110	34	2.5	4288951	4288979	Window
756520137	756520182-H	500:5	4.0	40	108	0.15S B0.9/0.3B1.8	--	15	110	34	2.5	4288951	4288979	Window
756520138	756520183-H	600:5	4.0	48	129.6	0.15S B0.9/0.3B1.8	--	15	110	34	2.5	4288951	4288979	Window
756520139	756520184-H	800:5	4.0	64	172.8	0.15S B0.9/0.3B1.8	--	15	110	34	2.5	4288951	4288979	Window
756520140	756520185-H	1000:5	4.0	80	216	0.15S B1.8/0.15B1.8	--	15	110	34	2.5	4288951	4288979	Window
756520141	756520186-H	1200:5	4.0	96	259.2	0.15S B1.8/0.15B1.8	--	15	110	34	2.5	4288951	4288979	Window
756520142	756520187-H	1500:5	3.0	120	324	0.15S B1.8/0.15B1.8	--	15	110	34	2.5	4288951	4288979	Window
756520143	756520188-H	2000:5	2.0	160	432	0.15S B1.8/0.15B1.8	--	15	110	34	2.5	4288951	4288979	Window
756520144	756520189-H	500:5	4.0	40	108	0.15 B0.9/0.3B1.8*	--	15	110	34	2.5	4288951	4288979	Window
756520145	756520190-H	600:5	4.0	48	129.6	0.15 B0.9/0.3B1.8*	--	15	110	34	2.5	4288951	4288979	Window
756520146	756520191-H	800:5	4.0	64	172.8	0.15 B1.8/0.3B1.8*	--	15	110	34	2.5	4288951	4288979	Window
756520147	756520192-H	1000:5	4.0	80	216	0.15 B1.8/0.3B1.8*	--	15	110	34	2.5	4288951	4288979	Window
756520148	756520193-H	1200:5	4.0	96	259.2	0.15 B1.8/0.3B1.8*	--	15	110	34	2.5	4288951	4288979	Window
756520149	756520194-H	1500:5	3.0	120	324	0.15 B1.8/0.3B1.8*	--	15	110	34	2.5	4288951	4288979	Window
756520150	756520195-H	2000:5	2.0	160	432	0.15 B1.8/0.3B1.8*	--	15	110	34	2.5	4288951	4288979	Window

* Accuracy range: 1% to RF HAER

Notes: .....

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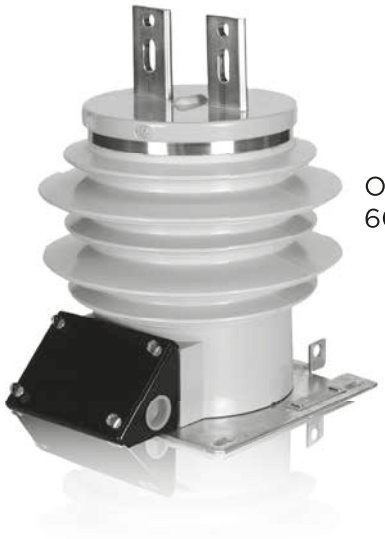
CRE-24

25 kV CURRENT TRANSFORMER



OUTDOOR
60 Hertz

ARTECHE CR series are dry type outdoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

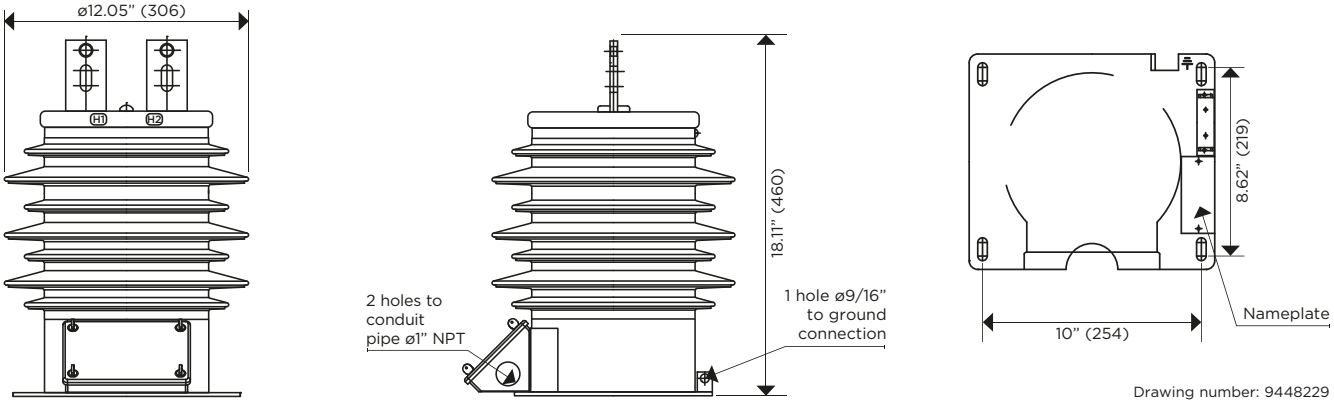
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

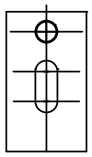
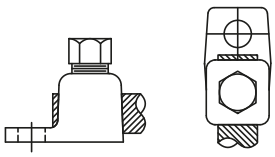
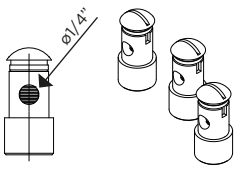
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

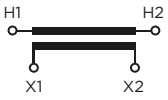
Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	78.2	24.4	10



Drawing number: 9448229

CONNECTIONS	PRIMARY TERMINAL	GROUND CONNECTOR	SECONDARY TERMINAL
	 Type: NEMA-2 Material: Copper	 Type: TE-12-250 Material: Copper Range: 4TRE-250MCM	 Type: Quick Connector Material: Brass

MARKING (Single Primary Ratio)	ONE SECONDARY
	

NEMA 2 THICKNESS	3/8"	1/2"	3/4"
AMPERES	0 TO 1200	1201 TO 1500	1501 TO 2000

Approximate dimensions in inches (mm).

CRE-24

25 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756243001	756240000-H	5:5	3.0	0.5	1.25	0.3B-0.9	T60	25	150	50	2.5
756243002	756240001-H	10:5	3.0	1	2.5	0.3B-0.9	T60	25	150	50	2.5
756243003	756240002-H	15:5	3.0	1.5	3.75	0.3B-0.9	T60	25	150	50	2.5
756243004	756240003-H	20:5	3.0	2	5	0.3B-0.9	T60	25	150	50	2.5
756243005	756240004-H	25:5	3.0	2.5	6.25	0.3B-0.9	T60	25	150	50	2.5
756243006	756240005-H	30:5	3.0	3	7.5	0.3B-0.9	T60	25	150	50	2.5
756243008	756240006-H	40:5	3.0	4	10	0.3B-0.9	T60	25	150	50	2.5
756243010	756240007-H	50:5	3.0	5	12.5	0.3B-0.9	T60	25	150	50	2.5
756243015	756240008-H	75:5	3.0	7.5	18.75	0.3B-0.9	T60	25	150	50	2.5
756243020	756240009-H	100:5	3.0	10	25	0.3B-0.9	T60	25	150	50	2.5
756243030	756240010-H	150:5	3.0	15	37.5	0.3B-0.9	T60	25	150	50	2.5
756243040	756240011-H	200:5	3.0	20	50	0.3B-0.9	T60	25	150	50	2.5
756243060	756240012-H	300:5	3.0	30	75	0.3B-0.9	T60	25	150	50	2.5
756243080	756240013-H	400:5	3.0	40	100	0.3B-0.9	T60	25	150	50	2.5
756243120	756240014-H	600:5	2.0	60	150	0.3B-0.9	T60	25	150	50	2.5
756243160	756240015-H	800:5	1.5	60	150	0.3B-0.9	T60	25	150	50	2.5
756243200	756240016-H	1000:5	1.0	75	127.5	0.3B-0.9	T60	25	150	50	2.5
756243240	756240017-H	1200:5	1.0	90	162	0.3B-0.9	T60	25	150	50	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
756246040	756240030-H	200:5	2.0	20	50	0.15 B-1.8	-	25	150	50	2.5
756246120	756240031-H	600:5	1.5	60	150	0.15 B-1.8	-	25	150	50	2.5
756246200	756240032-H	1000:5	1.5	75	127.5	0.15 B-1.8	-	25	150	50	2.5
756246240	756240033-H	1200:5	1.2	90	162	0.15 B-1.8	-	25	150	50	2.5

Additional ratings available upon request.

Notes: .....

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CRF-24

25 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE CR series are dry type outdoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

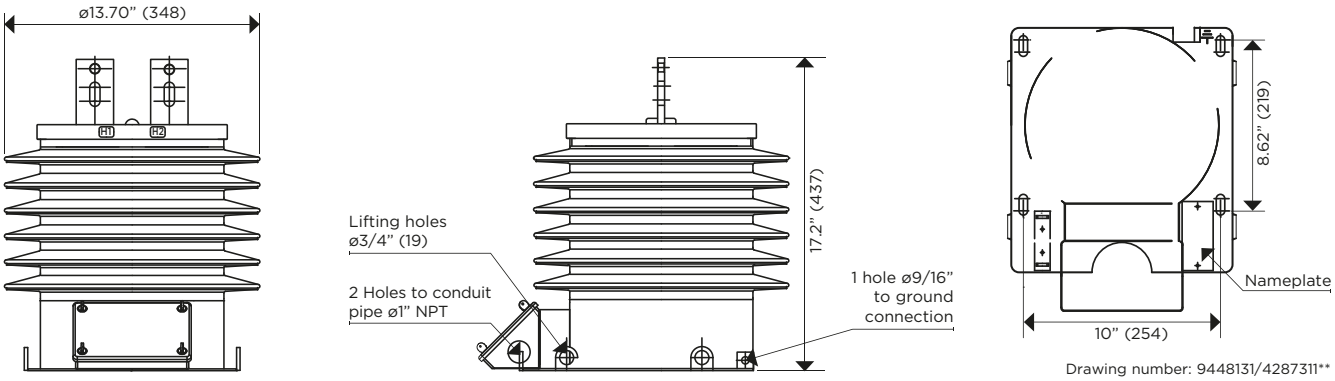
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	112.4	27.55	12



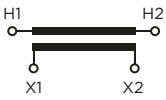
Drawing number: 9448131/4287311**

CONNECTIONS

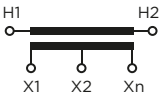
PRIMARY TERMINAL	GROUND CONNECTOR	SECONDARY TERMINAL
Type: NEMA-2 Material: Copper Type: NEMA-4 Material: Copper **	Type: TE-12-250 Material: Copper Range: 4TRE-250MCM	ø1/4" Type: Quick Connector Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



NEMA 2 THICKNESS	3/8"	1/2"	3/4"
AMPERES	0 TO 1200	1201 TO 1500	1501 TO 2000

Approximate dimensions in inches (mm).

CRF-24

25 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756261001	756260000-H	5:5	1.5	0.5	0.95	0.3B-1.8	T200	25	150	50	2.5
756261002	756260001-H	10:5	1.5	1	1.9	0.3B-1.8	T200	25	150	50	2.5
756261003	756260002-H	15:5	1.5	1.5	2.85	0.3B-1.8	T200	25	150	50	2.5
756261004	756260003-H	20:5	1.5	2	3.8	0.3B-1.8	T200	25	150	50	2.5
756261005	756260004-H	25:5	1.5	2.5	4.75	0.3B-1.8	T200	25	150	50	2.5
756261006	756260005-H	30:5	1.5	3	5.7	0.3B-1.8	T200	25	150	50	2.5
756261008	756260006-H	40:5	1.5	4	7.6	0.3B-1.8	T200	25	150	50	2.5
756261010	756260007-H	50:5	1.5	5	9.5	0.3B-1.8	T200	25	150	50	2.5
756261012	756260008-H	60:5	1.5	6	11.4	0.3B-1.8	T200	25	150	50	2.5
756261015	756260009-H	75:5	1.5	7.5	14.25	0.3B-1.8	T200	25	150	50	2.5
756261020	756260010-H	100:5	1.5	10	19	0.3B-1.8	T200	25	150	50	2.5
756261030	756260011-H	150:5	1.5	15	37.5	0.3B-1.8	T200	25	150	50	2.5
756261040	756260012-H	200:5	1.5	20	50	0.3B-1.8	T200	25	150	50	2.5
756261060	756260013-H	300:5	1.5	30	75	0.3B-1.8	T200	25	150	50	2.5
756261080	756260014-H	400:5	1.5	40	100	0.3B-1.8	T200	25	150	50	2.5
756261120	756260015-H	600:5	1.5	60	86.7	0.3B-1.8	T200	25	150	50	2.5
756261160	756260016-H	800:5	1.2	60	114	0.3B-1.8	T200	25	150	50	2.5
756261200	756260017-H	1000:5	1.0	75	142.5	0.3B-1.8	T200	25	150	50	2.5
756261240	756260018-H	1200:5	1.0	90	171	0.3B-1.8	T200	25	150	50	2.5
756262001	756260030-H	5/10:5	2.0/1.5	1	1.9	0.3B-0.9/0.3B-1.8	T100/200	25	150	50	2.5
756262002	756260031-H	10/20:5	2.0/1.5	2	3.8	0.3B-0.9/0.3B-1.8	T100/200	25	150	50	2.5
756262005	756260032-H	25/50:5	2.0/1.5	5	9.5	0.3B-0.9/0.3B-1.8	T100/200	25	150	50	2.5
756262006	756260033-H	30/60:5	2.0/1.5	6	11.4	0.3B-0.9/0.3B-1.8	T100/200	25	150	50	2.5
756262010	756260034-H	50/100:5	2.0/1.5	10	19	0.3B-0.9/0.3B-1.8	T100/200	25	150	50	2.5
756262015	756260035-H	75/150:5	2.0/1.5	15	28.5	0.3B-0.9/0.3B-1.8	T100/200	25	150	50	2.5
756262020	756260036-H	100/200:5	2.0/1.5	20	38	0.3B-0.9/0.3B-1.8	T100/200	25	150	50	2.5
756262030	756260037-H	150/300:5	2.0/1.5	30	57	0.3B-0.9/0.3B-1.8	T100/200	25	150	50	2.5
756262040	756260038-H	200/400:5	2.0/1.5	40	76	0.3B-0.9/0.3B-1.8	T100/200	25	150	50	2.5
756262060	756260039-H	300/600:5	2.0/1.5	60	86.7	0.3B-0.9/0.3B-1.8	T100/200	25	150	50	2.5
756262080	756260040-H	400/800:5	1.2/1.2	60	114	0.3B-0.9/0.3B-1.8	T100/200	25	150	50	2.5
756262100	756260041-H	500/1000:5	1.0/1.0	75	142.5	0.3B-0.9/0.3B-1.8	T100/200	25	150	50	2.5
756262120	756260042-H	600/1200:5	1.0/1.0	90	171	0.3B-0.9/0.3B-1.8	T100/200	25	150	50	2.5
756269001	756260060-H	5:5	1.5	0.5	0.95	0.15B-0.9	-	25	150	50	2.5
756269002	756260061-H	10:5	1.5	1	1.9	0.15B-0.9	-	25	150	50	2.5
756269010	756260062-H	50:5	1.5	5	9.5	0.15B-0.9	-	25	150	50	2.5
756269015	756260063-H	75:5	1.5	7.5	14.25	0.15B-0.9	-	25	150	50	2.5
756269020	756260064-H	100:5	1.5	10	19	0.15B-0.9	-	25	150	50	2.5
756269120	756260065-H	600:5	1.5	10	19	0.15B-0.9	-	25	150	50	2.5
756269160	756260066-H	800:5	1.2	60	86.7	0.15B-0.9	-	25	150	50	2.5
756269200	756260067-H	1000:5	1.0	60	114	0.15B-0.9	-	25	150	50	2.5
756269240	756260068-H	1200:5	1.0	90	171	0.15B-0.9	-	25	150	50	2.5
756268001	756260090-H	5/10:5	2.0/1.5	1	1.9	0.15B-0.5/B-0.9	-	25	150	50	2.5
756268002	756260091-H	10/20:5	2.0/1.5	2	3.8	0.15B-0.5/B-0.9	-	25	150	50	2.5
756268060	756260092-H	300/600:5	2.0/1.5	60	86.7	0.15B-0.5/B-0.9	-	25	150	50	2.5
756268080	756260093-H	400/800:5	1.2/1.2	60	114	0.15B-0.5/B-0.9	-	25	150	50	2.5
756268100	756260094-H	500/1000:5	1.0/1.0	75	142.5	0.15B-0.5/B-0.9	-	25	150	50	2.5
756268120	756260095-H	600/1200:5	1.0/1.0	90	171	0.15B-0.5/B-0.9	-	25	150	50	2.5

CRF-24

25 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
High Accuracy Extended Range 5% nominal current to Rating Factor											
756267001	756260120-H	5:5	2.0	0.5	0.95	0.15S B-0.5	-	25	150	50	2.5
756267002	756260121-H	10:5	2.0	1	1.9	0.15S B-0.5	-	25	150	50	2.5
756267010	756260122-H	50:5	2.0	5	9.5	0.15S B-0.5	-	25	150	50	2.5
756267015	756260123-H	75:5	2.0	7.5	14.25	0.15S B-0.5	-	25	150	50	2.5
756267020	756260124-H	100:5	2.0	10	19	0.15S B-0.5	-	25	150	50	2.5
756267120	756260125-H	600:5	2.0	10	19	0.15S B-0.5	-	25	150	50	2.5
756267160	756260126-H	800:5	1.5	60	86.7	0.15S B-0.9	-	25	150	50	2.5
756267200	756260127-H	1000:5	1.2	60	114	0.15S B-0.9	-	25	150	50	2.5
756267240	756260128-H	1200:5	1.2	90	171	0.15S B-0.9	-	25	150	50	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
756266040	756260150-H	200:5	4.0	10	19	0.15 B-1.8	-	25	150	50	2.5
756266120	756260151-H	600:5	3.0	10	19	0.15 B-1.8	-	25	150	50	2.5
756266200	756260152-H	1000:5	2.0	60	114	0.15 B-1.8	-	25	150	50	2.5
756266240	756260153-H	1200:5	1.5	90	171	0.15 B-1.8	-	25	150	50	2.5

Additional ratings available upon request.

Notes: .....

CPE-25

25 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

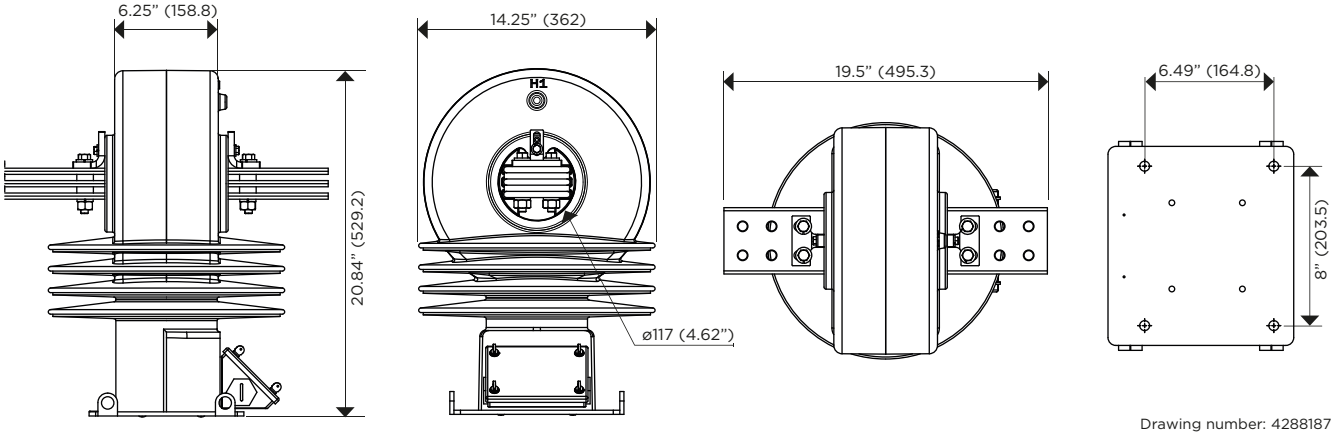
ARTECHE CPE series are dry type outdoor service window type current transformers.

The core and coils are encapsulated with Cycloaliphatic Epoxy Resin (CEP) which provides excellent dielectric properties, mechanical strength,resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. CPE family can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which additionally increases the transformers weatherability and offers better performance in heavily polluted environments. The transformer is maintenance free.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copperplate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

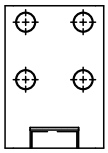
Mechanical characteristics				
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	178.5	35.43	8.93



Drawing number: 4288187

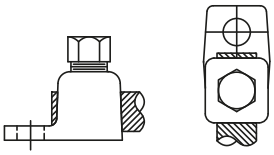
CONNECTIONS

PRIMARY TERMINAL



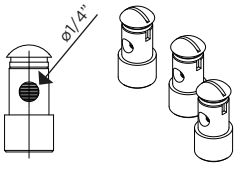
Type: NEMA-4
Material: Copper

GROUND CONNECTOR



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

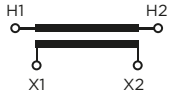
SECONDARY TERMINAL



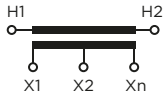
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

CPE-25

25 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) A	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Highest Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)		Dimensional Drawing Number CEP resin	Dimensional Drawing number for HCEP resin	Type
										Power frequency applied voltage test (kV_{rms})	Power frequency secondary applied voltage test (kV_{rms})			
756510001	756510052-H	200:5	3.0	16	43.2	0.3B0.2	C50	25	150	50	2.5	4288187	4288709	Bar (1)
756510002	756510053-H	300:5	2.0	24	64.8	0.3B0.5	C100	25	150	50	2.5	4288187	4288709	Bar (1)
756510003	756510054-H	400:5	2.0	32	86.4	0.3B0.9	C100	25	150	50	2.5	4288187	4288709	Bar (1)
756510004	756510055-H	500:5	2.0	40	108	0.3B1.8	C150	25	150	50	2.5	4288187	4288709	Bar (1)
756510005	756510056-H	600:5	2.0	48	129.6	0.3B1.8	C200	25	150	50	2.5	4288187	4288709	Bar (1)
756510006	756510057-H	800:5	2.0	64	172.8	0.3B1.8	C200	25	150	50	2.5	4288187	4288709	Bar (2)
756510007	756510058-H	1000:5	2.0	80	216	0.3B1.8	C250	25	150	50	2.5	4288187	4288709	Bar (2)
756510008	756510059-H	1200:5	2.0	96	259.2	0.3B1.8	C250	25	150	50	2.5	4288187	4288709	Bar (2)
756510009	756510060-H	1500:5	2.0	120	324	0.3B1.8	C300	25	150	50	2.5	4288187	4288709	Bar (3)
756510010	756510061-H	2000:5	2.0	160	432	0.3B1.8	C400	25	150	50	2.5	4288187	4288709	Bar (3)
756510011	756510062-H	2500:5	2.0	200	540	0.3B1.8	C400	25	150	50	2.5	4288187	4288709	Bar (3)
756510012	756510063-H	3000:5	2.0	240	648	0.3B1.8	C400	25	150	50	2.5	4288866	4289801	Bar (4)
756510013	756510064-H	4000:5	1.5	320	864	0.3B1.8	C800	25	150	50	2.5	4288866	4289801	Bar (4)
756510014	756510065-H	5000:5	1.5	400	1080	0.3B1.8	C800	25	150	50	2.5	4288866	4289801	Bar (4)
756510015	756510066-H	200/400:5	3.0/3.0	32	86.4	0.3B0.2/B0.9	C50/ C100	25	150	50	2.5	4288187	4288709	Bar (1)
756510016	756510067-H	300/600:5	2.0/2.0	48	129.6	0.3B0.5/B1.8	C100/ C200	25	150	50	2.5	4288187	4288709	Bar (1)
756510017	756510068-H	400/800:5	2.0/2.0	64	172.8	0.3B0.9/B1.8	C100/ C200	25	150	50	2.5	4288187	4288709	Bar (2)
756510018	756510069-H	500/1000:5	2.0/2.0	80	216	0.3B0.9/B1.8	C100/ C200	25	150	50	2.5	4288187	4288709	Bar (2)
756510019	756510070-H	600/1200:5	2.0/2.0	96	259.2	0.3B1.8/B1.8	C150/ C300	25	150	50	2.5	4288187	4288709	Bar (2)
756510020	756510071-H	750/1500:5	2.0/2.0	120	324	0.3B1.8/B1.8	C200/ C400	25	150	50	2.5	4288187	4288709	Bar (3)
756510021	756510072-H	800/1600:5	2.0/2.0	128	345.6	0.3B1.8/B1.8	C200/ C400	25	150	50	2.5	4288187	4288709	Bar (3)
756510022	756510073-H	1000/2000:5	2.0/2.0	160	432	0.3B1.8/B1.8	C200/ C400	25	150	50	2.5	4288187	4288709	Bar (3)
756510023	756510074-H	1500/3000:5	2.0/2.0	240	648	0.3B1.8/B1.8	C300/ C600	25	150	50	2.5	4288866	4289801	Bar (4)
756510024	756510075-H	2000/4000:5	2.0/1.5	320	864	0.3B1.8/B1.8	C400/ C800	25	150	50	2.5	4288866	4289801	Bar (4)
756510025	756510076-H	2500/5000:5	2.0/1.5	400	1080	0.3B1.8/B1.8	C400/ C800	25	150	50	2.5	4288866	4289801	Bar (4)
756510029	756510080-H	200:5	4.0	16	43.2	0.15S B0.1/0.3B0.2	--	25	150	50	2.5	4288187	4288709	Bar (1)
756510030	756510081-H	300:5	4.0	24	64.8	0.15S B0.5/0.3B0.9	--	25	150	50	2.5	4288187	4288709	Bar (1)

CPE-25

25 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) A	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Highest Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)		Dimensional Drawing Number CEP resin	Dimensional Drawing number for HCEP resin	Type
										Power frequency applied voltage test (kV_{rms})	Power frequency secondary applied voltage test (kV_{rms})			
756510031	756510082-H	400:5	4.0	32	86.4	0.15S B0.9/0.3B1.8	--	25	150	50	2.5	4288187	4288709	Bar (2)
756510032	756510083-H	500:5	4.0	40	108	0.15S B0.9/0.3B1.8	--	25	150	50	2.5	4288187	4288709	Bar (2)
756510033	756510084-H	600:5	4.0	48	129.6	0.15S B0.9/0.3B1.8	--	25	150	50	2.5	4288187	4288709	Bar (2)
756510034	756510085-H	800:5	4.0	64	172.8	0.15S B0.9/0.3B1.8	--	25	150	50	2.5	4288187	4288709	Bar (3)
756510035	756510086-H	1000:5	4.0	80	216	0.15S B1.8/0.15B1.8	--	25	150	50	2.5	4288187	4288709	Bar (3)
756510036	756510087-H	1200:5	4.0	96	259.2	0.15S B1.8/0.15B1.8	--	25	150	50	2.5	4288187	4288709	Bar (3)
756510037	756510088-H	1500:5	3.0	120	324	0.15S B1.8/0.15B1.8	--	25	150	50	2.5	4288187	4288709	Bar (3)
756510038	756510089-H	2000:5	2.0	160	432	0.15S B1.8/0.15B1.8	--	25	150	50	2.5	4288187	4288709	Bar (3)
756510042	756510093-H	500:5	4.0	40	108	0.15 B0.9/0.3B1.8*	--	25	150	50	2.5	4288187	4288709	Bar (2)
756510043	756510094-H	600:5	4.0	48	129.6	0.15 B0.9/0.3B1.8*	--	25	150	50	2.5	4288187	4288709	Bar (2)
756510044	756510095-H	800:5	4.0	64	172.8	0.15 B1.8/0.3B1.8*	--	25	150	50	2.5	4288187	4288709	Bar (3)
756510045	756510096-H	1000:5	4.0	80	216	0.15 B1.8/0.3B1.8*	--	25	150	50	2.5	4288187	4288709	Bar (3)
756510046	756510097-H	1200:5	4.0	96	259.2	0.15 B1.8/0.3B1.8*	--	25	150	50	2.5	4288187	4288709	Bar (3)
756510047	756510098-H	1500:5	3.0	120	324	0.15 B1.8/0.3B1.8*	--	25	150	50	2.5	4288187	4288709	Bar (3)
756510048	756510099-H	2000:5	2.0	160	432	0.15 B1.8/0.3B1.8*	--	25	150	50	2.5	4288187	4288709	Bar (3)
756510109	756510154-H	200:5	3.0	16	43.2	0.3B0.2	C50	25	150	50	2.5	4288801	4288520	Window
756510110	756510155-H	300:5	2.0	24	64.8	0.3B0.5	C100	25	150	50	2.5	4288801	4288520	Window
756510111	756510156-H	400:5	2.0	32	86.4	0.3B0.9	C100	25	150	50	2.5	4288801	4288520	Window
756510112	756510157-H	500:5	2.0	40	108	0.3B1.8	C150	25	150	50	2.5	4288801	4288520	Window
756510113	756510158-H	600:5	2.0	48	129.6	0.3B1.8	C200	25	150	50	2.5	4288801	4288520	Window
756510114	756510159-H	800:5	2.0	64	172.8	0.3B1.8	C200	25	150	50	2.5	4288801	4288520	Window
756510115	756510160-H	1000:5	2.0	80	216	0.3B1.8	C250	25	150	50	2.5	4288801	4288520	Window
756510116	756510161-H	1200:5	2.0	96	259.2	0.3B1.8	C250	25	150	50	2.5	4288801	4288520	Window
756510117	756510162-H	1500:5	2.0	120	324	0.3B1.8	C300	25	150	50	2.5	4288801	4288520	Window
756510118	756510163-H	2000:5	2.0	160	432	0.3B1.8	C400	25	150	50	2.5	4288801	4288520	Window
756510119	756510164-H	2500:5	2.0	200	540	0.3B1.8	C400	25	150	50	2.5	4288801	4288520	Window
756510120	756510165-H	3000:5	2.0	240	648	0.3B1.8	C400	25	150	50	2.5	4288801	4288520	Window
756510121	756510166-H	4000:5	1.5	320	864	0.3B1.8	C800	25	150	50	2.5	4288801	4288520	Window
756510122	756510167-H	5000:5	1.5	400	1080	0.3B1.8	C800	25	150	50	2.5	4288801	4288520	Window
756510123	756510168-H	200/400:5	3.0/3.0	32	86.4	0.3B0.2/B0.9	C50/ C100	25	150	50	2.5	4288801	4288520	Window
756510124	756510169-H	300/600:5	2.0/2.0	48	129.6	0.3B0.5/B1.8	C100/ C200	25	150	50	2.5	4288801	4288520	Window
756510125	756510170-H	400/800:5	2.0/2.0	64	172.8	0.3B0.9/B1.8	C100/ C200	25	150	50	2.5	4288801	4288520	Window
756510126	756510171-H	500/1000:5	2.0/2.0	80	216	0.3B0.9/B1.8	C100/ C200	25	150	50	2.5	4288801	4288520	Window

* Accuracy range: 1% to RF HAER

CPE-25

25 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) A	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Highest Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)		Dimensional Drawing Number CEP resin	Dimensional Drawing number for HCEP resin	Type
										Power frequency applied voltage test (kV_{rms})	Power frequency secondary applied voltage test (kV_{rms})			
756510127	756510172-H	600/1200:5	2.0/2.0	96	259.2	0.3B1.8/B1.8	C150/C300	25	150	50	2.5	4288801	4288520	Window
756510128	756510173-H	750/1500:5	2.0/2.0	120	324	0.3B1.8/B1.8	C200/C400	25	150	50	2.5	4288801	4288520	Window
756510129	756510174-H	800/1600:5	2.0/2.0	128	345.6	0.3B1.8/B1.8	C200/C400	25	150	50	2.5	4288801	4288520	Window
756510130	756510175-H	1000/2000:5	2.0/2.0	160	432	0.3B1.8/B1.8	C200/C400	25	150	50	2.5	4288801	4288520	Window
756510131	756510176-H	1500/3000:5	2.0/2.0	240	648	0.3B1.8/B1.8	C300/C600	25	150	50	2.5	4288801	4288520	Window
756510132	756510177-H	2000/4000:5	2.0/1.5	320	864	0.3B1.8/B1.8	C400/C800	25	150	50	2.5	4288801	4288520	Window
756510133	756510178-H	2500/5000:5	2.0/1.5	400	1080	0.3B1.8/B1.8	C400/C800	25	150	50	2.5	4288801	4288520	Window
756510134	756510179-H	200:5	4.0	16	43.2	0.15S B0.1/0.3B0.2	--	25	150	50	2.5	4288801	4288520	Window
756510135	756510180-H	300:5	4.0	24	64.8	0.15S B0.5/0.3B0.9	--	25	150	50	2.5	4288801	4288520	Window
756510136	756510181-H	400:5	4.0	32	86.4	0.15S B0.9/0.3B1.8	--	25	150	50	2.5	4288801	4288520	Window
756510137	756510182-H	500:5	4.0	40	108	0.15S B0.9/0.3B1.8	--	25	150	50	2.5	4288801	4288520	Window
756510138	756510183-H	600:5	4.0	48	129.6	0.15S B0.9/0.3B1.8	--	25	150	50	2.5	4288801	4288520	Window
756510139	756510184-H	800:5	4.0	64	172.8	0.15S B0.9/0.3B1.8	--	25	150	50	2.5	4288801	4288520	Window
756510140	756510185-H	1000:5	4.0	80	216	0.15S B1.8/0.15B1.8	--	25	150	50	2.5	4288801	4288520	Window
756510141	756510186-H	1200:5	4.0	96	259.2	0.15S B1.8/0.15B1.8	--	25	150	50	2.5	4288801	4288520	Window
756510142	756510187-H	1500:5	3.0	120	324	0.15S B1.8/0.15B1.8	--	25	150	50	2.5	4288801	4288520	Window
756510143	756510188-H	2000:5	2.0	160	432	0.15S B1.8/0.15B1.8	--	25	150	50	2.5	4288801	4288520	Window
756510144	756510189-H	500:5	4.0	40	108	0.15 B0.9/0.3B1.8*	--	25	150	50	2.5	4288801	4288520	Window
756510145	756510190-H	600:5	4.0	48	129.6	0.15 B0.9/0.3B1.8*	--	25	150	50	2.5	4288801	4288520	Window
756510146	756510191-H	800:5	4.0	64	172.8	0.15 B1.8/0.3B1.8*	--	25	150	50	2.5	4288801	4288520	Window
756510147	756510192-H	1000:5	4.0	80	216	0.15 B1.8/0.3B1.8*	--	25	150	50	2.5	4288801	4288520	Window
756510148	756510193-H	1200:5	4.0	96	259.2	0.15 B1.8/0.3B1.8*	--	25	150	50	2.5	4288801	4288520	Window
756510149	756510194-H	1500:5	3.0	120	324	0.15 B1.8/0.3B1.8*	--	25	150	50	2.5	4288801	4288520	Window
756510150	756510195-H	2000:5	2.0	160	432	0.15 B1.8/0.3B1.8*	--	25	150	50	2.5	4288801	4288520	Window

* Accuracy range: 1% to RF HAER

Notes: .....

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CE-034

34.5 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE CE series are dry type outdoor service top-core current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

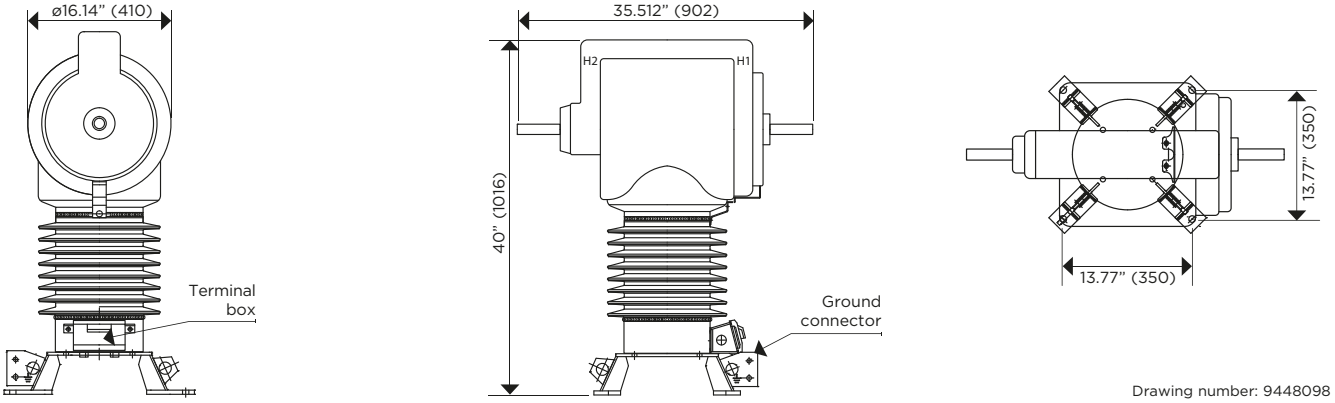
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions. The cores and windings are located in the upper part of the transformer. This head is coated with a conductive layer, which provides an adequate electric field control.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

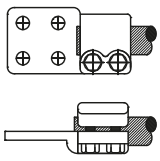
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	550	37.6	11



Drawing number: 9448098

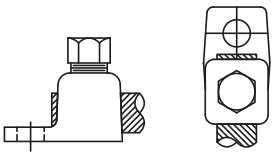
CONNECTIONS

PRIMARY TERMINAL



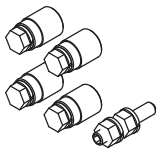
Type: PM30MC0-1-4N-E
Material: Aluminum

GROUND CONNECTOR



Type: LZ-500
Material: Copper
Range: 4/OTRE-500MCM

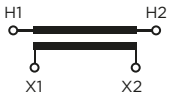
SECONDARY TERMINAL



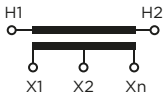
Type: Hex screw
Material: Steel

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

CE-034

34.5 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756151001	756150000-H	5:5	2.0	0.5	0.95	0.3B-1.8	T-400	34.5	200	70	2.5
756151002	756150001-H	10:5	2.0	1	1.9	0.3B-1.8	T-400	34.5	200	70	2.5
756151003	756150002-H	15:5	2.0	1.5	2.85	0.3B-1.8	T-400	34.5	200	70	2.5
756151004	756150003-H	20:5	2.0	2	3.8	0.3B-1.8	T-400	34.5	200	70	2.5
756151005	756150004-H	25:5	2.0	2.5	4.75	0.3B-1.8	T-400	34.5	200	70	2.5
756151006	756150005-H	30:5	2.0	3	5.7	0.3B-1.8	T-400	34.5	200	70	2.5
756151008	756150006-H	40:5	2.0	4	7.6	0.3B-1.8	T-400	34.5	200	70	2.5
756151010	756150007-H	50:5	2.0	5	9.5	0.3B-1.8	T-400	34.5	200	70	2.5
756151015	756150008-H	75:5	2.0	6	11.4	0.3B-1.8	T-400	34.5	200	70	2.5
756151020	756150009-H	100:5	2.0	7.5	14.25	0.3B-1.8	T-400	34.5	200	70	2.5
756151030	756150010-H	150:5	2.0	10	19	0.3B-1.8	T-400	34.5	200	70	2.5
756151040	756150011-H	200:5	2.0	20	38	0.3B-1.8	T-400	34.5	200	70	2.5
756151060	756150012-H	300:5	2.0	30	57	0.3B-1.8	T-400	34.5	200	70	2.5
756151080	756150013-H	400:5	2.0	40	76	0.3B-1.8	T-400	34.5	200	70	2.5
756151120	756150014-H	600:5	2.0	50	9.5	0.3B-1.8	T-400	34.5	200	70	2.5
756151160	756150015-H	800:5	2.0	60	86.7	0.3B-1.8	T-400	34.5	200	70	2.5
756151200	756150016-H	1000:5	1.5	60	114	0.3B-1.8	T-400	34.5	200	70	2.5
756151240	756150017-H	1200:5	1.5	75	142.5	0.3B-1.8	T-400	34.5	200	70	2.5
756151400	756150018-H	2000:5	1.2	90	171	0.3B-1.8	T-800	34.5	200	70	2.5
756152001	756150030-H	10/20:5	3.0/2.0	2	3.8	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756152005	756150031-H	25/50:5	3.0/2.0	5	9.5	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756152006	756150032-H	30/60:5	3.0/2.0	6	11.4	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756152010	756150033-H	50/100:5	3.0/2.0	10	19	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756152015	756150034-H	75/150:5	3.0/2.0	15	28.5	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756152020	756150035-H	100/200:5	3.0/2.0	20	38	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756152030	756150036-H	150/300:5	3.0/2.0	30	57	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756152040	756150037-H	200/400:5	3.0/2.0	40	76	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756152060	756150038-H	300/600:5	3.0/2.0	60	86.7	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756152080	756150039-H	400/800:5	3.0/2.0	60	114	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756152100	756150040-H	500/1000:5	3.0/1.5	75	142.5	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756152120	756150041-H	600/1200:5	3.0/1.5	90	171	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756152150	756150042-H	750/1500:5	3.0/1.5	90	171	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5

Additional ratings available upon request.

CE-034

34.5 kV CURRENT TRANSFORMER

Notes:

CRF-36

34.5 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE CR series are dry type outdoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

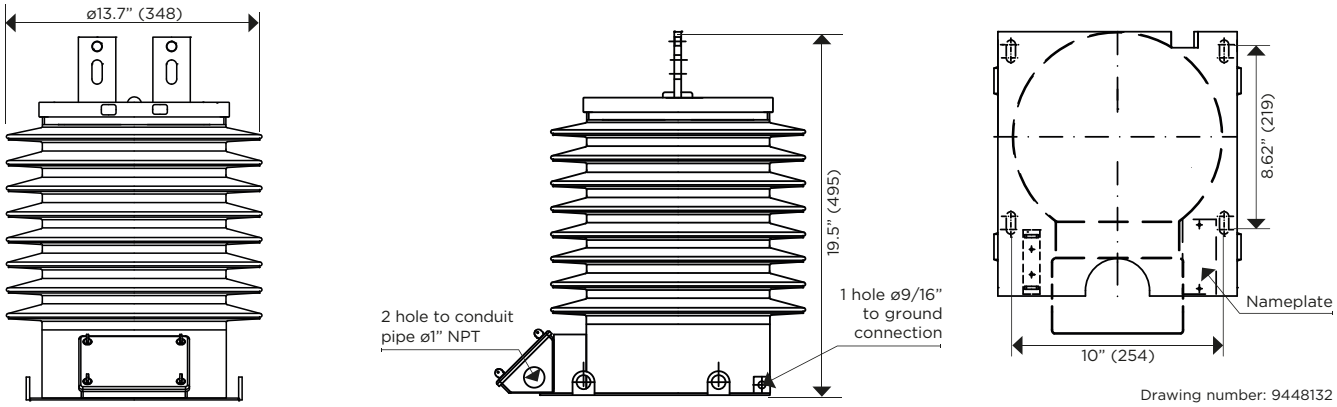
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

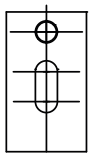
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	134.4	36.2	15



Drawing number: 9448132

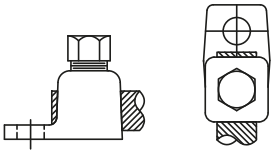
CONNECTIONS

PRIMARY TERMINAL



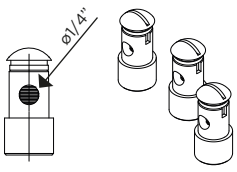
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

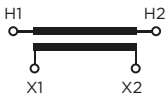
SECONDARY TERMINAL



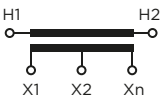
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



NEMA 2 THICKNESS	3/8"	1/2"	3/4"
AMPERES	0 TO 1200	1201 TO 1500	1501 TO 2000

Approximate dimensions in inches (mm).

CRF-36

34.5 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756273001	756270000-H	5:5	3.0	0.5	1.25	0.3B-1.8	T100	34.5	200	70	2.5
756273002	756270001-H	10:5	3.0	1	2.5	0.3B-1.8	T100	34.5	200	70	2.5
756273003	756270002-H	15:5	3.0	1.5	3.75	0.3B-1.8	T100	34.5	200	70	2.5
756273004	756270003-H	20:5	3.0	2	5	0.3B-1.8	T100	34.5	200	70	2.5
756273005	756270004-H	25:5	3.0	2.5	6.25	0.3B-1.8	T100	34.5	200	70	2.5
756273006	756270005-H	30:5	3.0	3	7.5	0.3B-1.8	T100	34.5	200	70	2.5
756273008	756270006-H	40:5	3.0	4	10	0.3B-1.8	T100	34.5	200	70	2.5
756273010	756270007-H	50:5	3.0	5	12.5	0.3B-1.8	T100	34.5	200	70	2.5
756273015	756270008-H	75:5	3.0	7.5	18.75	0.3B-1.8	T100	34.5	200	70	2.5
756273020	756270009-H	100:5	3.0	10	25	0.3B-1.8	T100	34.5	200	70	2.5
756273030	756270010-H	150:5	3.0	15	37.5	0.3B-1.8	T100	34.5	200	70	2.5
756273040	756270011-H	200:5	3.0	20	50	0.3B-1.8	T100	34.5	200	70	2.5
756273060	756270012-H	300:5	3.0	30	75	0.3B-1.8	T100	34.5	200	70	2.5
756273080	756270013-H	400:5	3.0	40	100	0.3B-1.8	T100	34.5	200	70	2.5
756273120	756270014-H	600:5	2.0	60	150	0.3B-1.8	T100	34.5	200	70	2.5
756273160	756270015-H	800:5	1.5	60	150	0.3B-1.8	T100	34.5	200	70	2.5
756273200	756270016-H	1000:5	1.0	75	127.5	0.3B-1.8	T100	34.5	200	70	2.5
756273240	756270017-H	1200:5	1.0	90	162	0.3B-1.8	T100	34.5	200	70	2.5
756271001	756270030-H	5:5	1.5	0.5	0.95	0.3B-1.8	T200	34.5	200	70	2.5
756271002	756270031-H	10:5	1.5	1	1.9	0.3B-1.8	T200	34.5	200	70	2.5
756271003	756270032-H	15:5	1.5	1.5	2.85	0.3B-1.8	T200	34.5	200	70	2.5
756271004	756270033-H	20:5	1.5	2	3.8	0.3B-1.8	T200	34.5	200	70	2.5
756271005	756270034-H	25:5	1.5	2.5	4.75	0.3B-1.8	T200	34.5	200	70	2.5
756271006	756270035-H	30:5	1.5	3	5.7	0.3B-1.8	T200	34.5	200	70	2.5
756271008	756270036-H	40:5	1.5	4	7.6	0.3B-1.8	T200	34.5	200	70	2.5
756271010	756270037-H	50:5	1.5	5	9.5	0.3B-1.8	T200	34.5	200	70	2.5
756271012	756270038-H	60:5	1.5	6	11.4	0.3B-1.8	T200	34.5	200	70	2.5
756271015	756270039-H	75:5	1.5	7.5	14.25	0.3B-1.8	T200	34.5	200	70	2.5
756271020	756270040-H	100:5	1.5	10	19	0.3B-1.8	T200	34.5	200	70	2.5
756271040	756270041-H	200:5	1.5	20	38	0.3B-1.8	T200	34.5	200	70	2.5
756271060	756270042-H	300:5	1.5	30	57	0.3B-1.8	T200	34.5	200	70	2.5
756271080	756270043-H	400:5	1.5	40	76	0.3B-1.8	T200	34.5	200	70	2.5
756271100	756270044-H	500:5	1.5	50	9.5	0.3B-1.8	T200	34.5	200	70	2.5
756271120	756270045-H	600:5	1.2	60	86.7	0.3B-1.8	T200	34.5	200	70	2.5
756271160	756270046-H	800:5	1.0	60	114	0.3B-1.8	T200	34.5	200	70	2.5
756271200	756270047-H	1000:5	1.0	75	142.5	0.3B-1.8	T200	34.5	200	70	2.5
756271240	756270048-H	1200:5	1.0	90	171	0.3B-1.8	T200	34.5	200	70	2.5
756272002	756270060-H	10/20:5	2.0/1.5	2	3.8	0.3B-0.9/0.3B-1.8	T100/T200	34.5	200	70	2.5
756272005	756270061-H	25/50:5	2.0/1.5	5	9.5	0.3B-0.9/0.3B-1.8	T100/T200	34.5	200	70	2.5
756272006	756270062-H	30/60:5	2.0/1.5	6	11.4	0.3B-0.9/0.3B-1.8	T100/T200	34.5	200	70	2.5
756272010	756270063-H	50/100:5	2.0/1.5	10	19	0.3B-0.9/0.3B-1.8	T100/T200	34.5	200	70	2.5
756272015	756270064-H	75/150:5	2.0/1.5	15	28.5	0.3B-0.9/0.3B-1.8	T100/T200	34.5	200	70	2.5
756272020	756270065-H	100/200:5	2.0/1.5	20	38	0.3B-0.9/0.3B-1.8	T100/T200	34.5	200	70	2.5

CRF-36

34.5 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756272030	756270066-H	150/300:5	2.0/1.5	30	57	0.3B-0.9/0.3B-1.8	T100/T200	34.5	200	70	2.5
756272040	756270067-H	200/400:5	2.0/1.5	40	76	0.3B-0.9/0.3B-1.8	T100/T200	34.5	200	70	2.5
756272060	756270068-H	300/600:5	2.0/1.5	60	86.7	0.3B-0.9/0.3B-1.8	T100/T200	34.5	200	70	2.5
756272080	756270069-H	400/800:5	1.2/1.2	60	114	0.3B-0.9/0.3B-1.8	T100/T200	34.5	200	70	2.5
756272100	756270070-H	500/1000:5	1.0/1.0	75	142.5	0.3B-0.9/0.3B-1.8	T100/T200	34.5	200	70	2.5
756272120	756270071-H	600/1200:5	1.0/1.0	90	171	0.3B-0.9/0.3B-1.8	T100/T200	34.5	200	70	2.5
756279001	756270080-H	5:5	1.5	0.5	0.95	0.15B-0.9	-	34.5	200	70	2.5
756279002	756270081-H	10:5	1.5	1	1.9	0.15B-0.9	-	34.5	200	70	2.5
756279010	756270082-H	50:5	1.5	5	9.5	0.15B-0.9	-	34.5	200	70	2.5
756279015	756270083-H	75:5	1.5	7.5	14.25	0.15B-0.9	-	34.5	200	70	2.5
756279020	756270084-H	100:5	1.5	10	19	0.15B-0.9	-	34.5	200	70	2.5
756279120	756270085-H	600:5	1.2	60	86.7	0.15B-0.9	-	34.5	200	70	2.5
756279160	756270086-H	800:5	1.0	60	114	0.15B-0.9	-	34.5	200	70	2.5
756279240	756270087-H	1200:5	1.0	90	171	0.15B-0.9	-	34.5	200	70	2.5
756278001	756270100-H	5/10:5	2.0/1.5	1	1.9	0.15B-0.5/B-0.9	-	34.5	200	70	2.5
756278002	756270101-H	10/20:5	2.0/1.5	2	3.8	0.15B-0.5/B-0.9	-	34.5	200	70	2.5
756278060	756270102-H	300/600:5	2.0/1.5	60	86.7	0.15B-0.5/B-0.9	-	34.5	200	70	2.5
756278080	756270103-H	400/800:5	1.2/1.2	60	114	0.15B-0.5/B-0.9	-	34.5	200	70	2.5
756278100	756270104-H	500/1000:5	1.0/1.0	75	142.5	0.15B-0.5/B-0.9	-	34.5	200	70	2.5
756278120	756270105-H	600/1200:5	1.0/1.0	90	171	0.15B-0.5/B-0.9	-	34.5	200	70	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
756276040	756270120-H	200:5	2.0	20	50	0.15 B-1.8	-	34.5	200	70	2.5
756276120	756270121-H	600:5	1.5	60	150	0.15 B-1.8	-	34.5	200	70	2.5
756276200	756270122-H	1000:5	1.5	75	127.5	0.15 B-1.8	-	34.5	200	70	2.5
756276240	756270123-H	1200:5	1.2	90	162	0.15 B-1.8	-	34.5	200	70	2.5

Additional ratings available upon request.

Notes: .....

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CRH-36

34.5 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE CR series are dry type outdoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

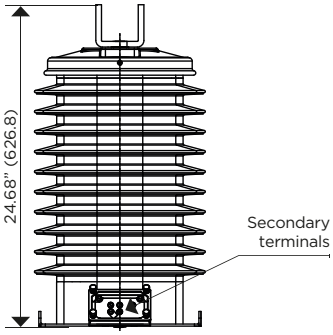
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

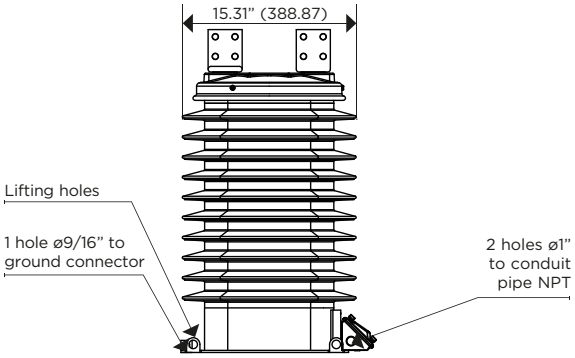
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

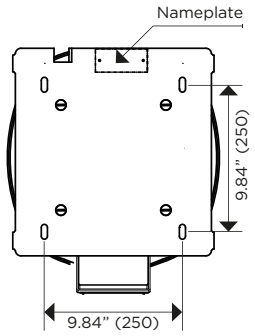
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	253.5	47.83	19.3



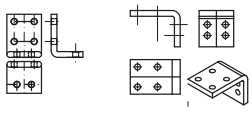




Drawing number: 4286121

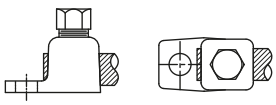
CONNECTIONS

PRIMARY TERMINAL



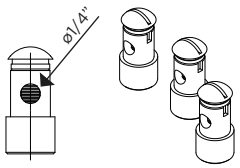
Type: NEMA-4
Material: Copper

GROUND CONNECTOR



Type: LZ-250
Material: Copper
Range: 4TRE-250MCM

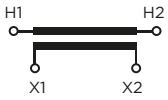
SECONDARY TERMINAL



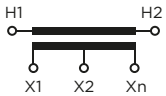
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

CRH-36

34.5 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756861001	756860000-H	5:5	2.0	0.5	0.95	0.3B-1.8	T200	34.5	200	70	2.5
756861002	756860001-H	10:5	2.0	1	1.9	0.3B-1.8	T200	34.5	200	70	2.5
756861003	756860002-H	15:5	2.0	1.5	2.85	0.3B-1.8	T200	34.5	200	70	2.5
756861004	756860003-H	20:5	2.0	2	3.8	0.3B-1.8	T200	34.5	200	70	2.5
756861005	756860004-H	25:5	2.0	2.5	4.75	0.3B-1.8	T200	34.5	200	70	2.5
756861006	756860005-H	30:5	2.0	3	5.7	0.3B-1.8	T200	34.5	200	70	2.5
756861008	756860006-H	40:5	2.0	4	7.6	0.3B-1.8	T200	34.5	200	70	2.5
756861010	756860007-H	50:5	2.0	5	9.5	0.3B-1.8	T200	34.5	200	70	2.5
756861015	756860008-H	75:5	2.0	6	11.4	0.3B-1.8	T200	34.5	200	70	2.5
756861020	756860009-H	100:5	2.0	7.5	14.25	0.3B-1.8	T200	34.5	200	70	2.5
756861030	756860010-H	150:5	2.0	10	19	0.3B-1.8	T200	34.5	200	70	2.5
756861040	756860011-H	200:5	2.0	20	38	0.3B-1.8	T200	34.5	200	70	2.5
756861060	756860012-H	300:5	2.0	30	57	0.3B-1.8	T200	34.5	200	70	2.5
756861080	756860013-H	400:5	2.0	40	76	0.3B-1.8	T200	34.5	200	70	2.5
756861100	756860014-H	500:5	2.0	50	9.5	0.3B-1.8	T200	34.5	200	70	2.5
756861120	756860015-H	600:5	2.0	60	86.7	0.3B-1.8	T200	34.5	200	70	2.5
756861160	756860016-H	800:5	2.0	60	114	0.3B-1.8	T200	34.5	200	70	2.5
756861200	756860017-H	1000:5	1.5	75	142.5	0.3B-1.8	T200	34.5	200	70	2.5
756861240	756860018-H	1200:5	1.5	90	171	0.3B-1.8	T200	34.5	200	70	2.5
756862002	756860030-H	10/20:5	3.0/2.0	2	3.8	0.3B-1.8/0.3B1.8	T100/T200	34.5	200	70	2.5
756862005	756860031-H	25/50:5	3.0/2.0	5	9.5	0.3B-1.8/0.3B1.8	T100/T200	34.5	200	70	2.5
756862006	756860032-H	30/60:5	3.0/2.0	6	11.4	0.3B-1.8/0.3B1.8	T100/T200	34.5	200	70	2.5
756862010	756860033-H	50/100:5	3.0/2.0	10	19	0.3B-1.8/0.3B1.8	T100/T200	34.5	200	70	2.5
756862015	756860034-H	75/150:5	3.0/2.0	15	28.5	0.3B-1.8/0.3B1.8	T100/T200	34.5	200	70	2.5
756862020	756860035-H	100/200:5	3.0/2.0	20	38	0.3B-1.8/0.3B1.8	T100/T200	34.5	200	70	2.5
756862030	756860036-H	150/300:5	3.0/2.0	30	57	0.3B-1.8/0.3B1.8	T100/T200	34.5	200	70	2.5
756862040	756860037-H	200/400:5	3.0/2.0	40	76	0.3B-1.8/0.3B1.8	T100/T200	34.5	200	70	2.5
756862030	756860038-H	300/600:5	3.0/2.0	60	86.7	0.3B-1.8/0.3B1.8	T100/T200	34.5	200	70	2.5
756862030	756860039-H	400/800:5	3.0/2.0	60	114	0.3B-1.8/0.3B1.8	T100/T200	34.5	200	70	2.5
756862030	756860040-H	500/1000:5	3.0/1.5	75	142.5	0.3B-1.8/0.3B1.8	T100/T200	34.5	200	70	2.5
756862030	756860041-H	600/1200:5	3.0/1.5	90	171	0.3B-1.8/0.3B1.8	T100/T200	34.5	200	70	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
756868040	756860060-H	200:5	4.0	20	38	0.15 B-1.8	-	34.5	200	70	2.5
756868120	756860061-H	600:5	3.0	60	86.7	0.15 B-1.8	-	34.5	200	70	2.5
756868200	756860062-H	1000:5	2.0	75	142.5	0.15 B-1.8	-	34.5	200	70	2.5
756868240	756860063-H	1200:5	1.5	90	171	0.15 B-1.8	-	34.5	200	70	2.5

Additional ratings available upon request.

CRH-36

34.5 kV CURRENT TRANSFORMER

Notes:

CRK-36

34.5 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE CR series are dry type outdoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

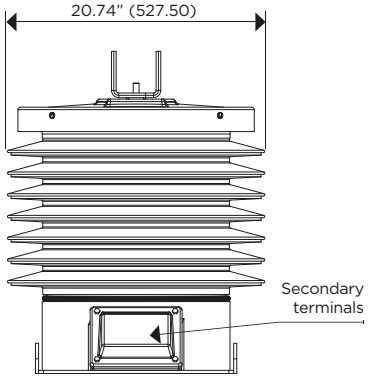
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

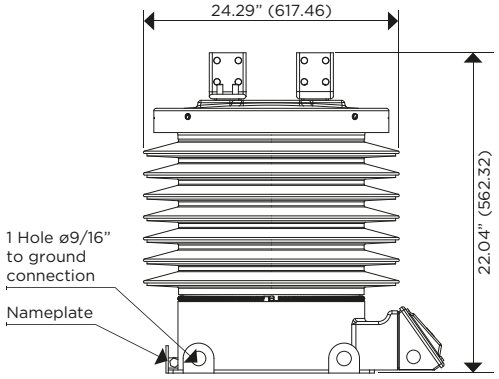
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

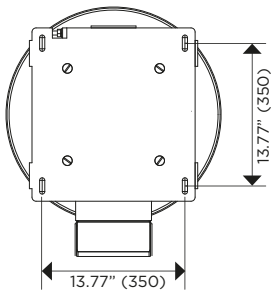
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	322	44.68	13.8



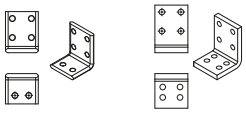




Drawing number: 4286124

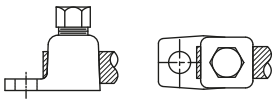
CONNECTIONS

PRIMARY TERMINAL



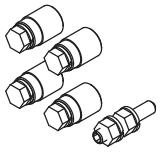
Type: NEMA-4
Material: Copper

GROUND CONNECTOR



Type: LZ-250
Material: Copper
Range: 4TRE-250MCM

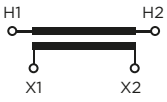
SECONDARY TERMINAL



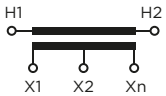
Type: Hex screw
Material: Steel

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

CRK-36

34.5 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak}))	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756911001	756910000-H	5:5	1.5	0.5	0.95	0.3B-1.8	T400	34.5	200	70	2.5
756911002	756910001-H	10:5	1.5	1	1.9	0.3B-1.8	T400	34.5	200	70	2.5
756911003	756910002-H	15:5	1.5	1.5	2.85	0.3B-1.8	T400	34.5	200	70	2.5
756911004	756910003-H	20:5	1.5	2	3.8	0.3B-1.8	T400	34.5	200	70	2.5
756911005	756910004-H	25:5	1.5	2.5	4.75	0.3B-1.8	T400	34.5	200	70	2.5
756911006	756910005-H	30:5	1.5	3	5.7	0.3B-1.8	T400	34.5	200	70	2.5
756911008	756910006-H	40:5	1.5	4	7.6	0.3B-1.8	T400	34.5	200	70	2.5
756911010	756910007-H	50:5	1.5	5	9.5	0.3B-1.8	T400	34.5	200	70	2.5
756911015	756910008-H	75:5	1.5	6	11.4	0.3B-1.8	T400	34.5	200	70	2.5
756911020	756910009-H	100:5	1.5	7.5	14.25	0.3B-1.8	T400	34.5	200	70	2.5
756911030	756910010-H	150:5	1.5	10	19	0.3B-1.8	T400	34.5	200	70	2.5
756911040	756910011-H	200:5	1.5	20	38	0.3B-1.8	T400	34.5	200	70	2.5
756911060	756910012-H	300:5	1.5	30	57	0.3B-1.8	T400	34.5	200	70	2.5
756911080	756910013-H	400:5	1.5	40	76	0.3B-1.8	T400	34.5	200	70	2.5
756911100	756910014-H	500:5	1.5	50	9.5	0.3B-1.8	T400	34.5	200	70	2.5
756911120	756910015-H	600:5	1.5	60	86.7	0.3B-1.8	T400	34.5	200	70	2.5
756911160	756910016-H	800:5	1.5	60	114	0.3B-1.8	T400	34.5	200	70	2.5
756911200	756910017-H	1000:5	1.5	75	142.5	0.3B-1.8	T400	34.5	200	70	2.5
756911240	756910018-H	1200:5	1.5	90	171	0.3B-1.8	T400	34.5	200	70	2.5
756911400	756910019-H	2000:5	1.2	90	171	0.3B-1.8	T400	34.5	200	70	2.5
756911500	756910020-H	2500:5	1.2	90	171	0.3B-1.8	T400	34.5	200	70	2.5
756912002	756910030-H	10/20:5	3.0/1.5	2	3.8	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756912005	756910031-H	25/50:5	3.0/1.5	5	9.5	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756912006	756910032-H	30/60:5	3.0/1.5	6	11.4	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756912010	756910033-H	50/100:5	3.0/1.5	10	19	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756912015	756910034-H	75/150:5	3.0/1.5	15	28.5	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756912020	756910035-H	100/200:5	3.0/1.5	20	38	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756912030	756910036-H	150/300:5	3.0/1.5	30	57	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756912040	756910037-H	200/400:5	3.0/1.5	40	76	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756912060	756910038-H	300/600:5	3.0/1.5	60	86.7	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756912080	756910039-H	400/800:5	3.0/1.5	60	114	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756912100	756910040-H	500/1000:5	3.0/1.5	75	142.5	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756912120	756910041-H	600/1200:5	3.0/1.5	90	171	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756912150	756910042-H	750/1500:5	3.0/1.5	90	171	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5
756912200	756910043-H	1000/2000:5	2.4/1.2	90	171	0.3B-1.8/0.3B1.8	T200/T400	34.5	200	70	2.5

Additional ratings available upon request.

CRK-36

34.5 kV CURRENT TRANSFORMER

Notes:

CE-046

46 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE CE series are dry type outdoor service top-core current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

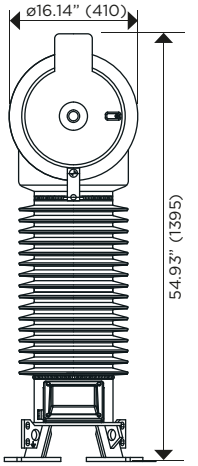
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

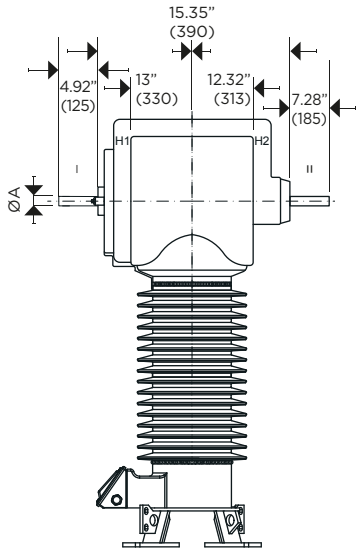
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions. The cores and windings are located in the upper part of the transformer. This head is coated with a conductive layer, which provides an adequate electric field control.

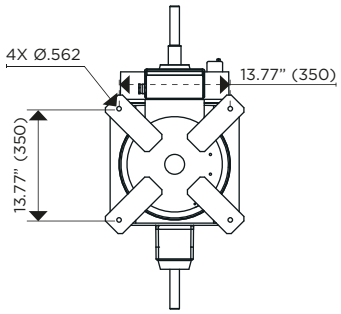
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	595	75.2	22



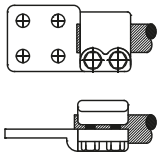




Drawing number: 9448137

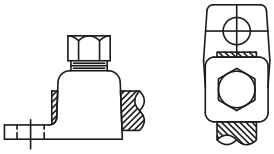
CONNECTIONS

PRIMARY TERMINAL



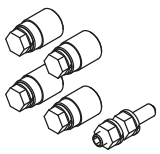
Type: PM30MC0-1-4N-E
Material: Aluminum

GROUND CONNECTOR



Type: LZ-500
Material: Copper
Range: 4/OTRE-500MCM

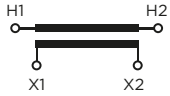
SECONDARY TERMINAL



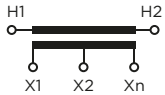
Type: Hex screw
Material: Steel

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

CE-046

46 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756162005	756160000-H	25/50:5	3.0/2.0	5	9.5	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756162006	756160001-H	30/60:5	3.0/2.0	6	11.4	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756162010	756160002-H	50/100:5	3.0/2.0	10	19	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756162015	756160003-H	75/150:5	3.0/2.0	15	28.5	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756162020	756160004-H	100/200:5	3.0/2.0	20	38	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756162030	756160005-H	150/300:5	3.0/2.0	30	57	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756162040	756160006-H	200/400:5	3.0/2.0	40	76	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756162060	756160007-H	300/600:5	3.0/2.0	60	86.7	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756162080	756160008-H	400/800:5	3.0/2.0	60	114	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756162100	756160009-H	500/1000:5	3.0/1.5	75	142.5	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756162120	756160010-H	600/1200:5	3.0/1.5	90	171	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756162150	756160011-H	750/1500:5	3.0/1.5	90	171	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
756166040	756160030-H	200:5	1.5	16	40	0.15 B-1.8	-	46	250	95	2.5
756166120	756160031-H	600:5	1.5	48	120	0.15 B-1.8	-	46	250	95	2.5
756166200	756160032-H	1000:5	1.5	50	125	0.15 B-1.8	-	46	250	95	2.5
756166240	756160033-H	1200:5	1.5	96	240	0.15 B-1.8	-	46	250	95	2.5

Additional ratings available upon request.

Notes: .....

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CRH-52

46 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE CR series are dry type outdoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

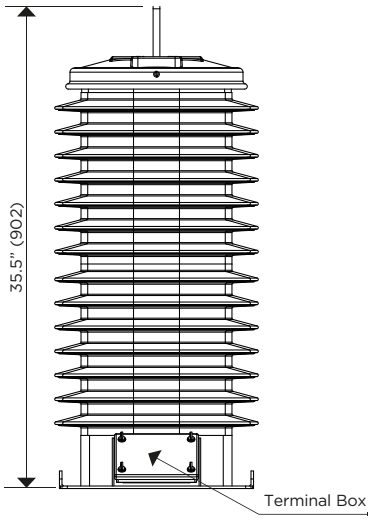
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

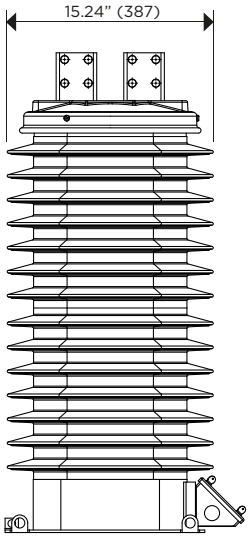
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

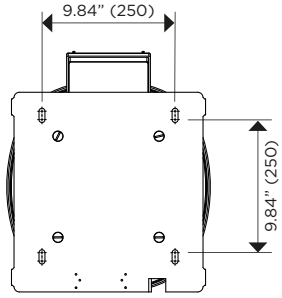
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	253.53	47.83	23



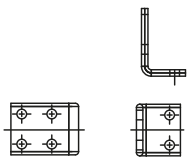




Drawing number: 4286122

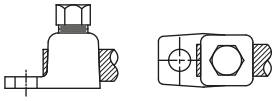
CONNECTIONS

PRIMARY TERMINAL



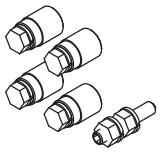
Type: NEMA-4
Material: Copper

GROUND CONNECTOR



Type: LZ-250
Material: Copper
Range: 4TRE-250MCM

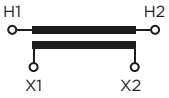
SECONDARY TERMINAL



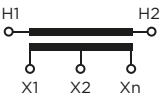
Type: Hex screw
Material: Steel

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

CRH-52

46 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756872005	756870000-H	25/50:5	2.4/1.2	5	9.5	0.3B-1.8/0.3B1.8	T100/T200	46	250	95	2.5
756872006	756870001-H	30/60:5	2.4/1.2	6	11.4	0.3B-1.8/0.3B1.8	T100/T200	46	250	95	2.5
756872010	756870002-H	50/100:5	2.4/1.2	10	19	0.3B-1.8/0.3B1.8	T100/T200	46	250	95	2.5
756872015	756870003-H	75/150:5	2.4/1.2	15	28.5	0.3B-1.8/0.3B1.8	T100/T200	46	250	95	2.5
756872020	756870004-H	100/200:5	2.4/1.2	20	38	0.3B-1.8/0.3B1.8	T100/T200	46	250	95	2.5
756872030	756870005-H	150/300:5	2.4/1.2	30	57	0.3B-1.8/0.3B1.8	T100/T200	46	250	95	2.5
756872040	756870006-H	200/400:5	2.4/1.2	40	76	0.3B-1.8/0.3B1.8	T100/T200	46	250	95	2.5
756872060	756870007-H	300/600:5	2.4/1.2	60	86.7	0.3B-1.8/0.3B1.8	T100/T200	46	250	95	2.5
756872080	756870008-H	400/800:5	2.4/1.2	60	114	0.3B-1.8/0.3B1.8	T100/T200	46	250	95	2.5
756872100	756870009-H	500/1000:5	2.4/1.2	75	142.5	0.3B-1.8/0.3B1.8	T100/T200	46	250	95	2.5
756872120	756870010-H	600/1200:5	2.4/1.2	90	171	0.3B-1.8/0.3B1.8	T100/T200	46	250	95	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
756876040	756870030-H	200:5	1.5	16	40	0.15 B-1.8	-	46	250	95	2.5
756876120	756870031-H	600:5	1.5	48	120	0.15 B-1.8	-	46	250	95	2.5
756876200	756870032-H	1000:5	1.5	50	125	0.15 B-1.8	-	46	250	95	2.5
756876240	756870033-H	1200:5	1.5	96	240	0.15 B-1.8	-	46	250	95	2.5

Additional ratings available upon request.

Notes: .....

CRK-52

46 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE CR series are dry type outdoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

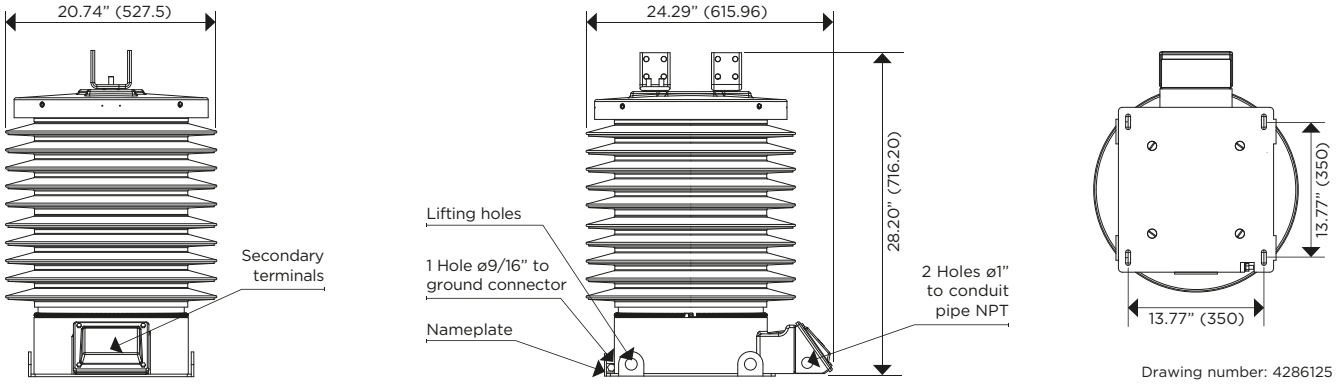
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

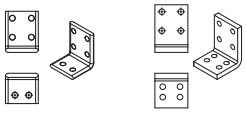
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	458	63.62	19.7



Drawing number: 4286125

CONNECTIONS

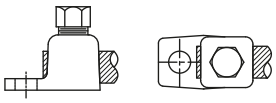
PRIMARY TERMINAL



1500 A 2000 A

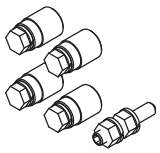
Type: NEMA-4
Material: Copper

GROUND CONNECTOR



Type: LZ-250
Material: Copper
Range: 4TRE-250MCM

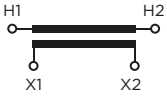
SECONDARY TERMINAL



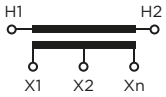
Type: Hex screw
Material: Steel

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

CRK-52

46 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756922005	756920000-H	25/50:5	3.0/1.5	5	9.5	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756922006	756920001-H	30/60:5	3.0/1.5	6	11.4	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756922010	756920002-H	50/100:5	3.0/1.5	10	19	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756922015	756920003-H	75/150:5	3.0/1.5	15	28.5	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756922020	756920004-H	100/200:5	3.0/1.5	20	38	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756922030	756920005-H	150/300:5	3.0/1.5	30	57	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756922040	756920006-H	200/400:5	3.0/1.5	40	76	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756922060	756920007-H	300/600:5	3.0/1.5	60	86.7	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756922080	756920008-H	400/800:5	3.0/1.5	60	114	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756922100	756920009-H	500/1000:5	3.0/1.5	75	142.5	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756922120	756920010-H	600/1200:5	3.0/1.5	90	171	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756922150	756920011-H	750/1500:5	3.0/1.5	90	171	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5
756922200	756920012-H	1000/2000:5	2.4/1.2	90	171	0.3B-1.8/0.3B1.8	T200/T400	46	250	95	2.5

Additional ratings available upon request.

Notes: .....

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CE-069

69 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE CE series are dry type outdoor service top-core current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

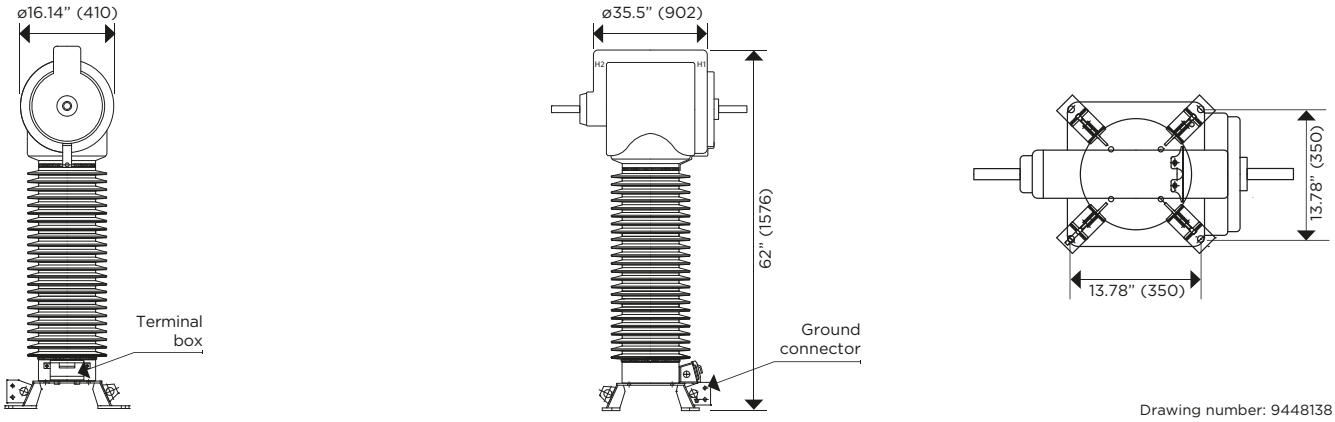
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions. The cores and windings are located in the upper part of the transformer. This head is coated with a conductive layer, which provides an adequate electric field control.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

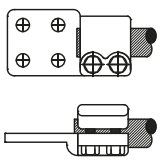
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	771	109.4	33



Drawing number: 9448138

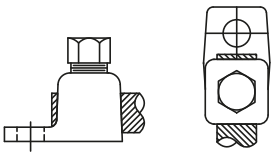
CONNECTIONS

PRIMARY TERMINAL



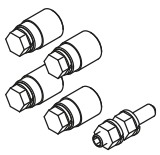
Type: PM30MC0-1-4N-E
Material: Aluminum

GROUND CONNECTOR



Type: LZ-500
Material: Copper
Range: 4/OTRE-500MCM

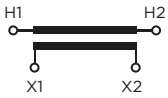
SECONDARY TERMINAL



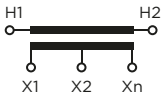
Type: Hex screw
Material: Steel

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

CE-069

69 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756172005	756170000-H	25/50:5	2.0/1.5	5	9.5	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756172006	756170001-H	30/60:5	2.0/1.5	6	11.4	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756172010	756170002-H	50/100:5	2.0/1.5	10	19	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756172015	756170003-H	75/150:5	2.0/1.5	15	28.5	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756172020	756170004-H	100/200:5	2.0/1.5	20	38	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756172030	756170005-H	150/300:5	2.0/1.5	30	57	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756172040	756170006-H	200/400:5	2.0/1.5	40	76	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756172060	756170007-H	300/600:5	2.0/1.5	60	86.7	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756172080	756170008-H	400/800:5	2.0/1.5	60	114	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756172100	756170009-H	500/1000:5	2.0/1.5	75	142.5	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756172120	756170010-H	600/1200:5	2.0/1.5	90	171	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756172150	756170011-H	750/1500:5	2.0/1.5	90	171	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
756176040	756170030-H	200:5	1.5	16	40	0.15 B-1.8	-	69	350	140	2.5
756176120	756170031-H	600:5	1.5	48	120	0.15 B-1.8	-	69	350	140	2.5
756176200	756170032-H	1000:5	1.5	50	125	0.15 B-1.8	-	69	350	140	2.5
756176240	756170033-H	1200:5	1.5	96	240	0.15 B-1.8	-	69	350	140	2.5

Additional ratings available upon request.

Notes: .....

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CRH-72

69 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE CR series are dry type outdoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

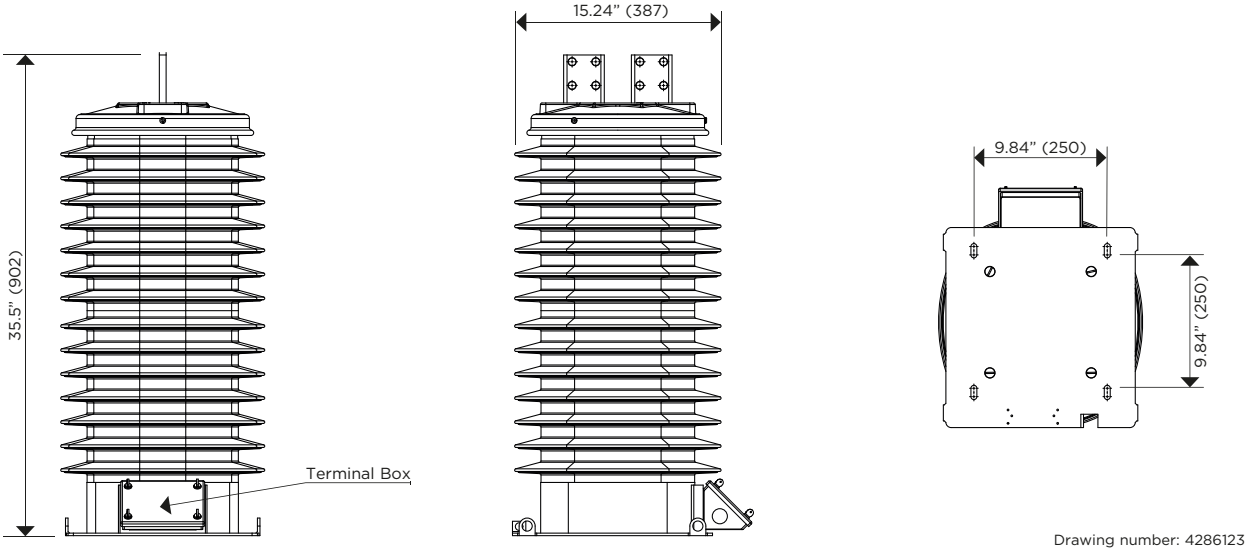
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

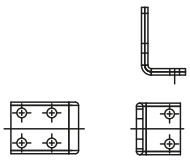
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	298	74.8	26



Drawing number: 4286123

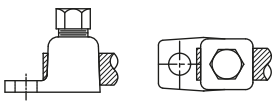
CONNECTIONS

PRIMARY TERMINAL



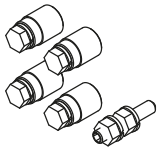
Type: NEMA-4
Material: Copper

GROUND CONNECTOR



Type: LZ-250
Material: Copper
Range: 4TRE-250MCM

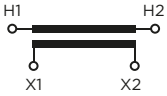
SECONDARY TERMINAL



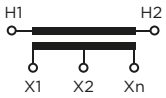
Type: Hex screw
Material: Steel

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

CRH-72

69 kV CURRENT TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756892005	756890000-H	25/50:5	2.4/1.2	5	9.5	0.3B-1.8/0.3B1.8	T100/T200	69	350	140	2.5
756892006	756890001-H	30/60:5	2.4/1.2	6	11.4	0.3B-1.8/0.3B1.8	T100/T200	69	350	140	2.5
756892010	756890002-H	50/100:5	2.4/1.2	10	19	0.3B-1.8/0.3B1.8	T100/T200	69	350	140	2.5
756892015	756890003-H	75/150:5	2.4/1.2	15	28.5	0.3B-1.8/0.3B1.8	T100/T200	69	350	140	2.5
756892020	756890004-H	100/200:5	2.4/1.2	20	38	0.3B-1.8/0.3B1.8	T100/T200	69	350	140	2.5
756892030	756890005-H	150/300:5	2.4/1.2	30	57	0.3B-1.8/0.3B1.8	T100/T200	69	350	140	2.5
756892040	756890006-H	200/400:5	2.4/1.2	40	76	0.3B-1.8/0.3B1.8	T100/T200	69	350	140	2.5
756892060	756890007-H	300/600:5	2.4/1.2	60	86.7	0.3B-1.8/0.3B1.8	T100/T200	69	350	140	2.5
756892080	756890008-H	400/800:5	2.4/1.2	60	114	0.3B-1.8/0.3B1.8	T100/T200	69	350	140	2.5
756892100	756890009-H	500/1000:5	2.4/1.2	75	142.5	0.3B-1.8/0.3B1.8	T100/T200	69	350	140	2.5
756892120	756890010-H	600/1200:5	2.4/1.2	90	171	0.3B-1.8/0.3B1.8	T100/T200	69	350	140	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
756176040	756890030-H	200:5	1.5	16	40	0.15 B-1.8	-	69	350	140	2.5
756176120	756890031-H	600:5	1.5	48	120	0.15 B-1.8	-	69	350	140	2.5
756176200	756890032-H	1000:5	1.5	50	125	0.15 B-1.8	-	69	350	140	2.5
756176240	756890033-H	1200:5	1.5	96	240	0.15 B-1.8	-	69	350	140	2.5

Additional ratings available upon request.

Notes: .....

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CRK-72

69 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE CR series are dry type outdoor service current transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

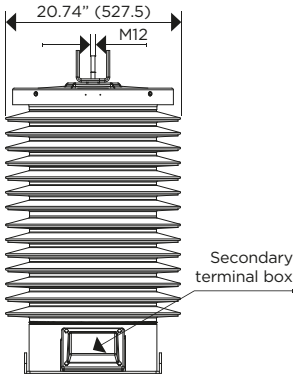
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

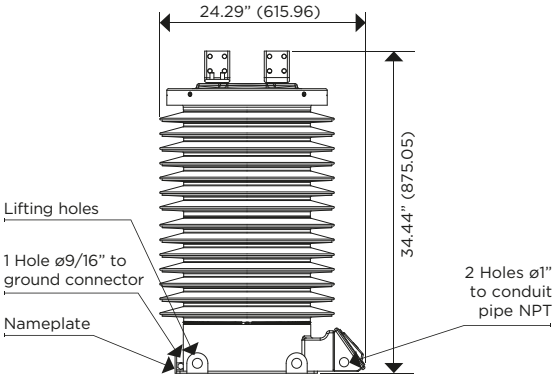
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

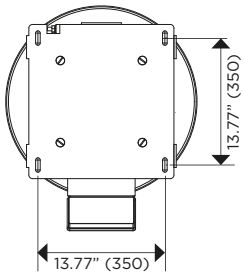
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	518	91.2	26.2



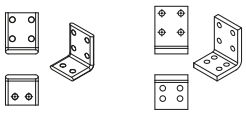




Drawing number: 4286126

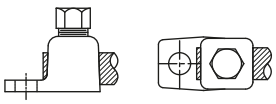
CONNECTIONS

PRIMARY TERMINAL



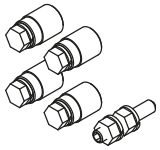
Type: NEMA-4
Material: Copper

GROUND CONNECTOR



Type: LZ-250
Material: Copper
Range: 4TRE-250MCM

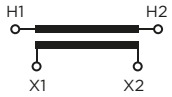
SECONDARY TERMINAL



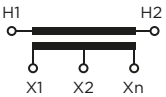
Type: Hex screw
Material: Steel

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

CRK-72

69 kV CURRENT TRANSFORMER

Electrical characteristics

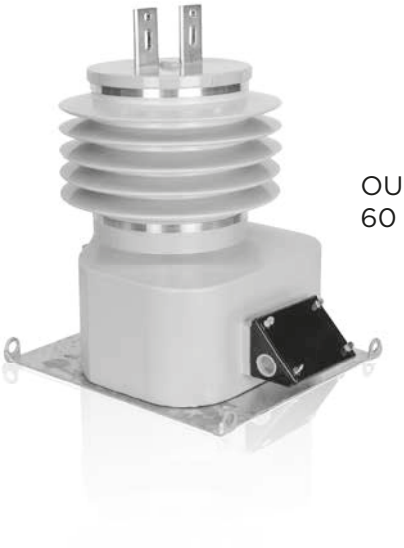
Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
756932005	756930000-H	25/50:5	2.4/1.2	5	9.5	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756932006	756930001-H	30/60:5	2.4/1.2	6	11.4	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756932010	756930002-H	50/100:5	2.4/1.2	10	19	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756932015	756930003-H	75/150:5	2.4/1.2	15	28.5	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756932020	756930004-H	100/200:5	2.4/1.2	20	38	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756932030	756930005-H	150/300:5	2.4/1.2	30	57	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756932040	756930006-H	200/400:5	2.4/1.2	40	76	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756932060	756930007-H	300/600:5	2.4/1.2	60	86.7	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756932080	756930008-H	400/800:5	2.4/1.2	60	114	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756932100	756930009-H	500/1000:5	2.4/1.2	75	142.5	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756932120	756930010-H	600/1200:5	2.4/1.2	90	171	0.3B-1.8/0.3B1.8	T200/T400	69	350	140	2.5
756932150	756930011-H	750/1500:5	2.4/1.2	90	171	0.3B-1.8/0.3B1.8	T400/T800	69	350	140	2.5
756932200	756930012-H	1000/2000:5	2.4/1.2	90	171	0.3B-1.8/0.3B1.8	T400/T800	69	350	140	2.5

Additional ratings available upon request.

Notes: .....

KM-15

15 kV COMBINED TRANSFORMER



OUTDOOR
60 Hertz

ARTECHE KM series are dry type outdoor service combination CT-PT. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

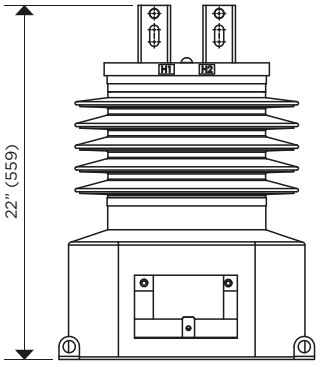
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

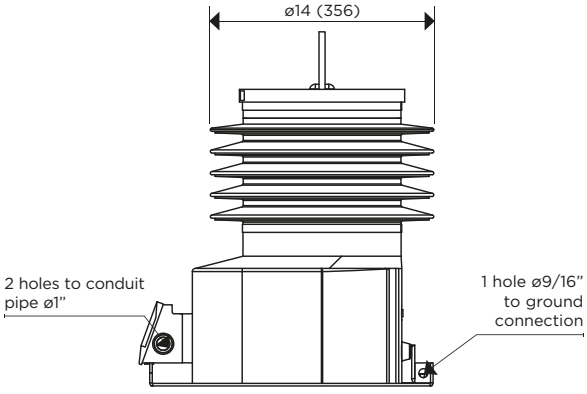
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

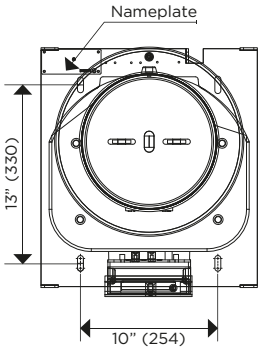
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	209	23.7	13



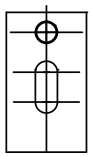




Drawing number: 4286236

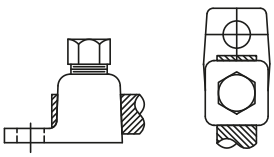
CONNECTIONS

PRIMARY TERMINAL



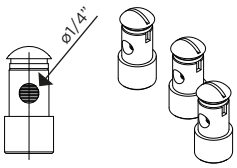
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



Type: TE-12 250
Material: Copper
Range: 4TRE-250MCM

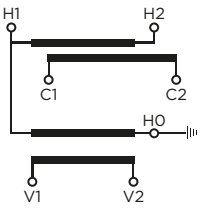
SECONDARY TERMINAL



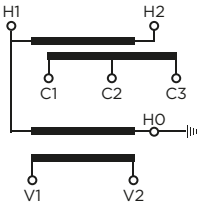
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

KM-15

15 kV COMBINED TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy [Current Transformer]	IEEE Metering Accuracy [Voltage Transformer]	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
770083011	770086026-H	5:5	3.0	0.5	1.4	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083021	770086025-H	10:5	3.0	1	2.7	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083031	770086024-H	15:5	3.0	1.5	4.1	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083041	770086023-H	20:5	3.0	2	5.4	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083051	770086022-H	25:5	3.0	2.5	6.8	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083061	770086021-H	30:5	3.0	3	8.1	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083071	770086020-H	40:5	3.0	4	10.8	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083081	770086019-H	50:5	3.0	5	13.5	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083091	770086018-H	75:5	3.0	7.5	20.3	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083101	770086017-H	100:5	3.0	10	27	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083111	770086016-H	150:5	3.0	15	40.5	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083121	770086015-H	200:5	3.0	20	54	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083131	770086014-H	300:5	3.0	30	81	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083141	770086013-H	400:5	3.0	40	108	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083151	770086012-H	600:5	2.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770081161	770086029-H	800:5	1.5	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770081171	770086028-H	1000:5	1.2	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770081181	770086027-H	1200:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770084041	770086010-H	10/20:5	2.0/1.5	2	5	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770084081	770086009-H	25/50:5	2.0/1.5	5	12.5	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770084121	770086008-H	100/200:5	2.0/1.5	20	50	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770084151	770086007-H	300/600:5	2.0/1.5	60	150	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770084161	770086006-H	400/800:5	2.0/1.5	60	150	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083161	770086011-H	400/800:5	3.0/1.5	60	150	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770084171	770086005-H	500/1000:5	2.0/1.2	75	127.5	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770084181	770086004-H	600/1200:5	2.0/1.0	90	162	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6 Z	15	110	34	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
770087121	770086003-H	200:5	3.0	20	50	0.15 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770088121	770086002-H	200:5	1.5	20	50	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770088171	770086001-H	1000:5	1.5	75	127.5	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	15	110	34	2.5

Additional ratings available upon request.

Voltage Ratings

VT Ratio	Primary (V)	Secondary (V)	Thermal Burden (VA)	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30s (Un)
60:1	7200/12470GY	120	750	1.25	1.5

NOTE: Line-to-Ground Connection Only.

Additional VT ratios are available. Please contact Arteche for details.

Notes:

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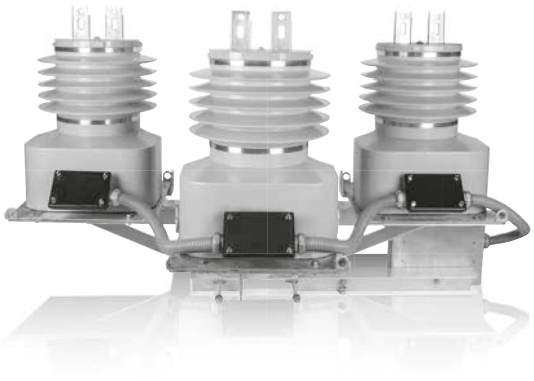
MK-15

15 kV METERING UNIT



OUTDOOR
60 Hertz

ARTECHE ME/MK series metering units are outdoor, three-phase, pole-mounted metering racks.

The rack is made of lightweight aluminium designed to mount on poles in an upright position. It includes two galvanized steel mounting bolts for attaching the metering unit to the pole, with pole diameters available from 8" to 14". Optional galvanized steel structures and/or other pole diameters are available upon request.

MK series incorporate 3 combined transformers mounted vertically. Their core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

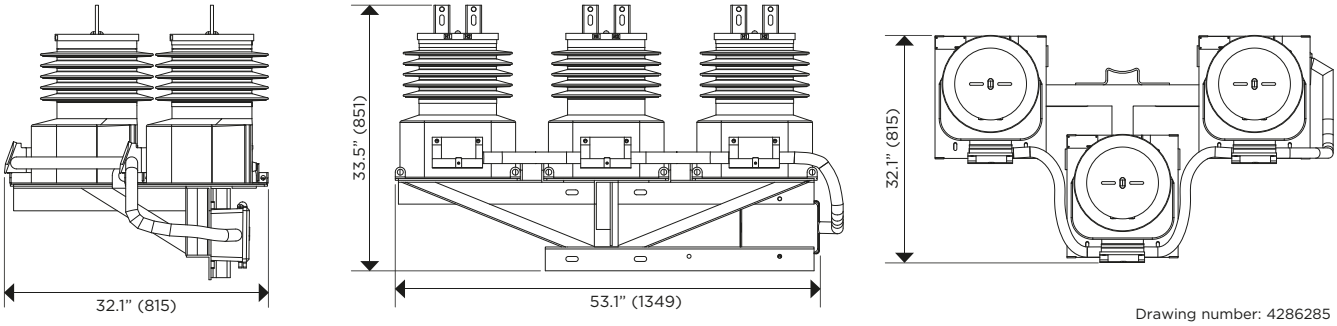
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

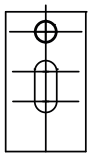
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	692	23.7	13



Drawing number: 4286285

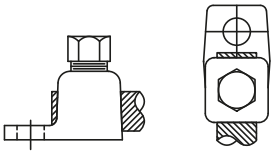
CONNECTIONS

PRIMARY TERMINAL



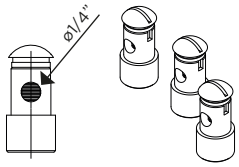
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



Type: TE-12 250 • Material: Copper
Range: 4TRE-250MCM

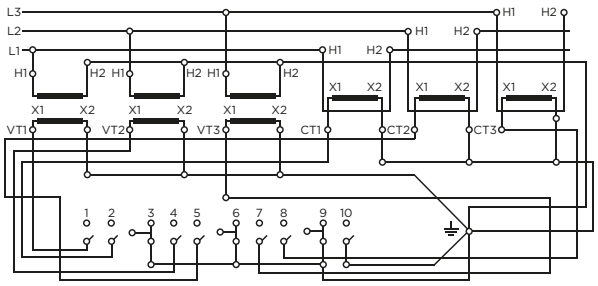
SECONDARY TERMINAL



Type: Quick Connector • Material: Brass

MARKING

CONNECTION PLATE



Approximate dimensions in inches (mm).

MK-15

15 kV METERING UNIT

Electrical characteristics

Code* (CEP)	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy [Current Transformer]	IEEE Metering Accuracy [Voltage Transformer]	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
770663011	5:5	3.0	0.5	1.4	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663021	10:5	3.0	1	2.7	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663031	15:5	3.0	1.5	4.1	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663041	20:5	3.0	2	5.4	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663051	25:5	3.0	2.5	6.8	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663061	30:5	3.0	3	8.1	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663071	40:5	3.0	4	10.8	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663081	50:5	3.0	5	13.5	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663091	75:5	3.0	7.5	20.3	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663101	100:5	3.0	10	27	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663111	150:5	3.0	15	40.5	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663121	200:5	3.0	20	54	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663131	300:5	3.0	30	81	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663141	400:5	3.0	40	108	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663151	600:5	2.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663161	800:5	1.5	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663171	1000:5	1.2	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663181	1200:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor										
770667121	200:5	3.0	20	50	0.15 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770668121	200:5	1.5	20	50	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770668171	1000:5	1.5	75	127.5	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	15	110	34	2.5

*** For HCEP Option add (–H) to the end of the code number.**
Additional ratings available upon request.

Voltage Ratings

VT Ratio	Primary (V)	Secondary (V)	Thermal Burden (VA)	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30s (Un)
60:1	7200/12470GY	120	750	1.25	1.5

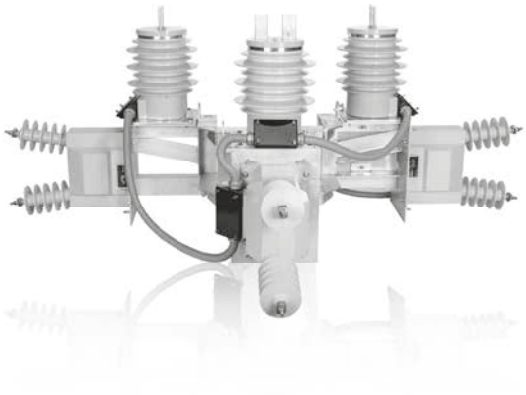
NOTE: Line-to-Ground Connection Only.

Additional VT ratios are available. Please contact Arteche for details.

Notes:

ME-015

15 kV METERING UNIT



OUTDOOR
60 Hertz

ARTECHE ME/MK series metering units are outdoor. three-phase. pole-mounted metering racks.

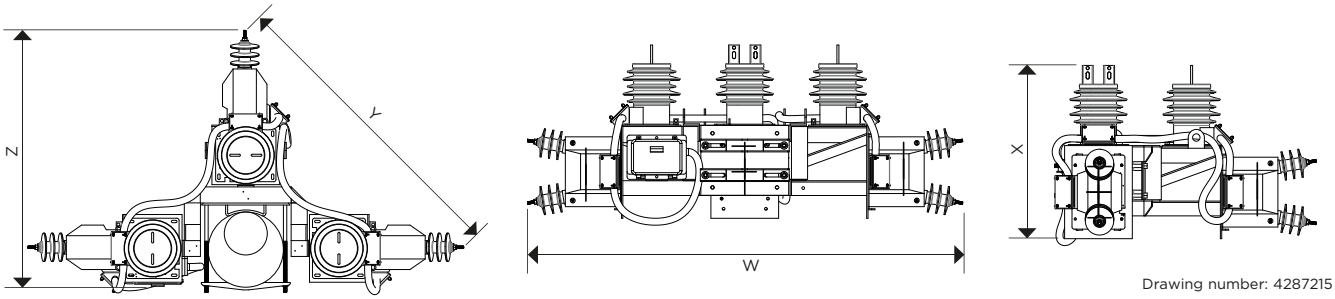
The rack is made of lightweight aluminium designed to mount on poles in an upright position. It includes two galvanized steel mounting bolts for attaching the metering unit to the pole. with pole diameters available from 8" to 14". Optional galvanized steel structures and/or other pole diameters are available upon request.

ME series incorporate 3 current transformers mounted vertically and 3 voltage transformers mounted horizontally. Their core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

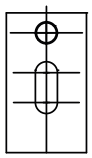
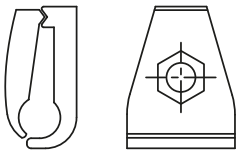
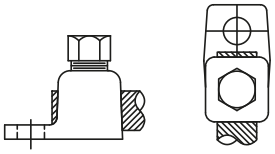
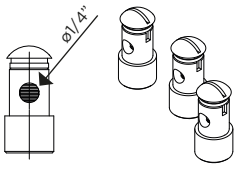
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage. achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.



Drawing number: 4287215

CONNECTIONS

PRIMARY TERMINAL CT	PRIMARY TERMINAL VT	GROUND CONNECTOR	SECONDARY TERMINAL
			
Type: NEMA-2 Material: Copper	Type: TE-4T Material: Copper Range: 8SOL-4TRE	Type: TE-12-250 Material: Copper Range: 4TRE-250MCM	Type: Quick Connector Material: Brass

ME-015

15 kV METERING UNIT

Characteristics

Type	Transformers		Code* (CEP)		Dimensions (in)				Weight with Aluminium Rack (lb)
	Current	Potential	With FUSE in the secondary box	Without FUSE in the secondary box	W	X	Y	Z	
ME-015	CRB-17	URL-17	771000009	771000017	82	32.25	58	48.75	520
ME-015	CRB-17	VRL-17	771000010	771000018	81.19	32.25	57.43	48.31	531
ME-015	CRB-17	URJ-17	771000011	771000019	80.5	32.50	56.87	47.94	564
ME-015	CRB-17	VRJ-17	771000012	771000020	81	32.50	57.31	48.25	564
ME-015	CRE-17	URL-17	771000013	771000021	82	32.68	58	48.75	579
ME-015	CRE-17	VRL-17	771000014	771000022	81.19	32.68	57.43	48.31	590
ME-015	CRE-17	URJ-17	771000015	771000023	80.5	32.68	56.87	47.94	623
ME-015	CRE-17	VRJ-17	771000016	771000024	81	32.68	57.31	48.25	623

*** For HCEP Option add (–H) to the end of the code number.**
Approximate dimensions in inches.
For detail electric characteristics see particular instrument transformer detail in its data sheet within this publication.

Notes: .....

MI-015

15 kV METERING UNIT

OUTDOOR
60 Hertz

ARTECHE MI series metering units are outdoor, three-phase, pad-mounted cabinets.

The cabinet is made of #12 caliber stainless steel lamination (2.7 mm or 0.105 in) with Munsell Green #7GY 3.29/1.5 powder finish. The doors are pad-lockable with a three point latch and a penta-head bolt.

MI series incorporate 3 combined transformers. Their core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

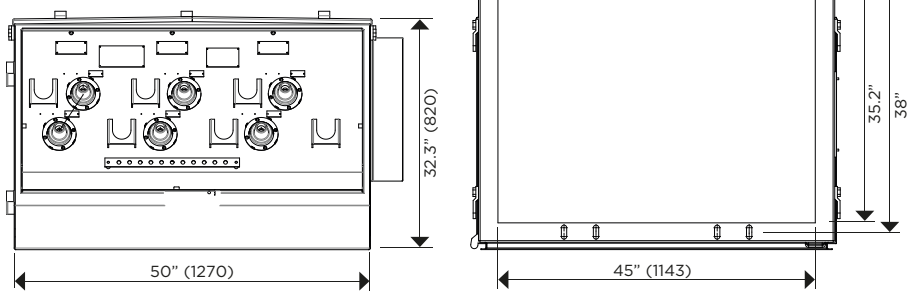
The entire surface of the transformer is coated with a conductive layer that is intended to be solidly grounded when energized. This allows for compact mounting inside switchgear or enclosures.

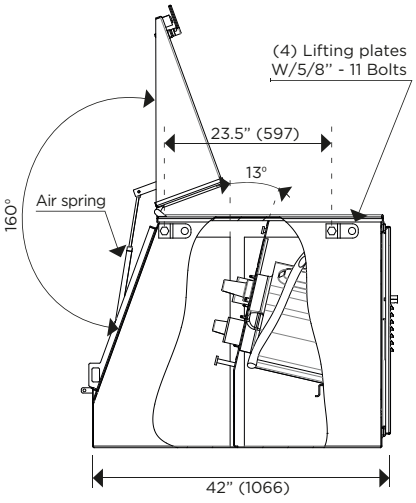
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

The primary bushing well connections are IEEE 386 compliant, rated 200 A loadbreak or 600 A non load-break.. The secondary terminals are pre-wired to a 10 position test switch and 9S meter socket in standard red/black colors.

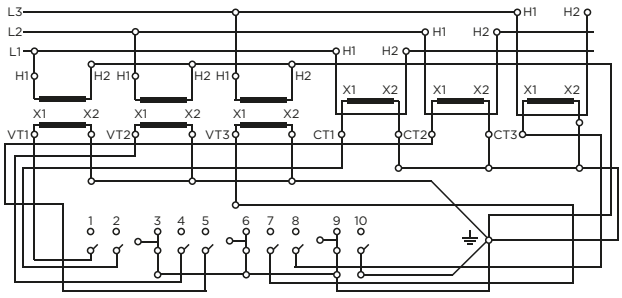
Mechanical characteristics		
Material	Colors	Weight (lbs.)
Stainless steel	Munsell Green	992





Drawing number: 4287010

MARKING



Approximate dimensions in inches (mm).

MI-015

15 kV METERING UNIT

Electrical characteristics

Code	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy [Current Transformer]	IEEE Metering Accuracy [Voltage Transformer]	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)		Primary
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})	
770574011	5:5	2,0	0,5	1,25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574021	10:5	2,0	1	2,5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574031	15:5	2,0	1,5	3,75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574041	20:5	2,0	2	5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574051	25:5	2,0	2,5	6,25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574061	30:5	2,0	3	7,5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574081	40:5	2,0	4	10	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574101	50:5	2,0	5	12,5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574151	75:5	2,0	7,5	18,75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574201	100:5	2,0	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770575301	150:5	1,33	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770575401	200:5	1,0	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770571131	300:5	1,5	30	75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	600 A Dead break Interface 15.2kV
770571141	400:5	1,5	40	100	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	600 A Dead break Interface 15.2kV
770571161	600:5	1,0	60	150	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	600 A Dead break Interface 15.2kV
770571101	100:5	2,0	10	25	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770571121	200:5	2,0	20	50	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	600 A Dead break Interface 15.2kV
770571151	600:5	1,0	48	120	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	600 A Dead break Interface 15.2kV

* Accuracy range: 1% to RF

Voltage Ratings

VT Ratio	Primary (V)	Secondary (V)	Thermal Burden (VA)	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30s (Un)
60:1	7200/12470GY	120	750	1.1	1.25

Additional VT ratios are available. Please contact Arteche for details.

Notes:

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KM-25

25 kV COMBINED TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE KM series are dry type outdoor service combination CT-PT. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

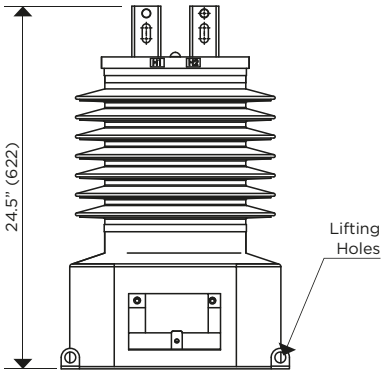
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

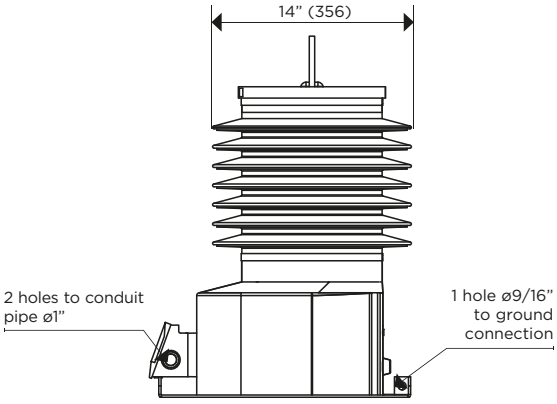
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

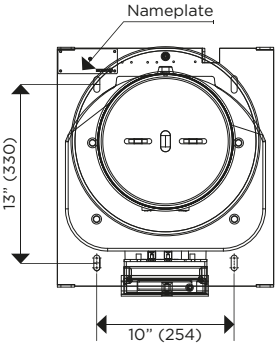
Partial Discharge measurements exceed IEEE C57.13 2016 requirements

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	230	32.6	16



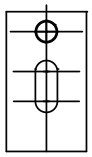




Drawing number: 4286284

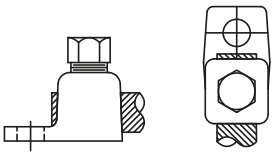
CONNECTIONS

PRIMARY TERMINAL



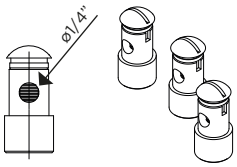
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



Type: TE-12 250
Material: Copper
Range: 4TRE-250MCM

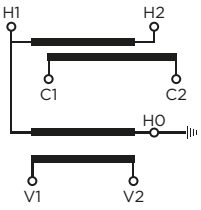
SECONDARY TERMINAL



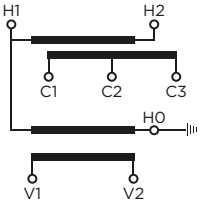
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

KM-25

25 kV COMBINED TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy [Current Transformer]	IEEE Metering Accuracy [Voltage Transformer]	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
770061016	770066029-H	5:5	1.5	0.5	1.4	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061026	770066028-H	10:5	1.5	1	2.7	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061036	770066027-H	15:5	1.5	1.5	4.1	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061046	770066026-H	20:5	1.5	2	5.4	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061056	770066025-H	25:5	1.5	2.5	6.8	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061066	770066024-H	30:5	1.5	3	8.1	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061076	770066023-H	40:5	1.5	4	10.8	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061086	770066022-H	50:5	1.5	5	13.5	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061096	770066021-H	75:5	1.5	7.5	20.3	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061106	770066020-H	100:5	1.5	10	27	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061116	770066019-H	150:5	1.5	15	40.5	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061126	770066018-H	200:5	1.5	20	54	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061136	770066017-H	300:5	1.5	30	81	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061146	770066016-H	400:5	1.5	40	108	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061156	770066015-H	600:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061166	770066014-H	800:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061176	770066013-H	1000:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061186	770066012-H	1200:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770064046	770066011-H	10/20:5	2.0/1.5	2	5	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770064086	770066010-H	25/50:5	2.0/1.5	5	12.5	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770064126	770066009-H	100/200:5	2.0/1.5	20	50	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770064136	770066008-H	150/300:5	2.0/1.5	30	75	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770066136	770066004-H	150/300:5	4.0/2.0	30	75	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770064156	770066007-H	300/600:5	2.0/1.5	60	150	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770064176	770066006-H	500/1000:5	2.0/1.2	75	127.5	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770064186	770066005-H	600/1200:5	2.0/1.0	90	162	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
770067126	770066003-H	200:5	3.0	20	50	0.15 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770068126	770066002-H	200:5	1.5	20	50	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770068176	770066001-H	1000:5	1.5	75	127.5	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	25	150	50	2.5

Approximate dimensions in inches.

Voltage Ratings

VT Ratio	Primary (V)	Secondary (V)	Thermal Burden (VA)	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30s (Un)
120:1	14400/24940GY	120	750	1.25	1.5

NOTE: Line-to-Ground Connection Only.

Additional VT ratios are available. Please contact Arteche for details.

Notes:

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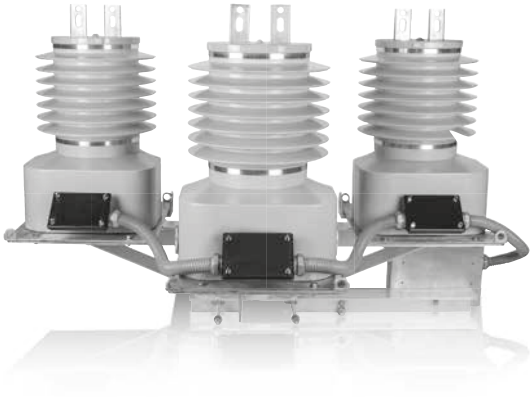
MK-25

25 kV METERING UNIT



OUTDOOR
60 Hertz

ARTECHE ME/MK series metering units are outdoor, three-phase, pole-mounted metering racks.

The rack is made of lightweight aluminium designed to mount on poles in an upright position. It includes two galvanized steel mounting bolts for attaching the metering unit to the pole, with pole diameters available from 8" to 14". Optional galvanized steel structures and/or other pole diameters are available upon request.

MK series incorporate 3 combined transformers mounted vertically. Their core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

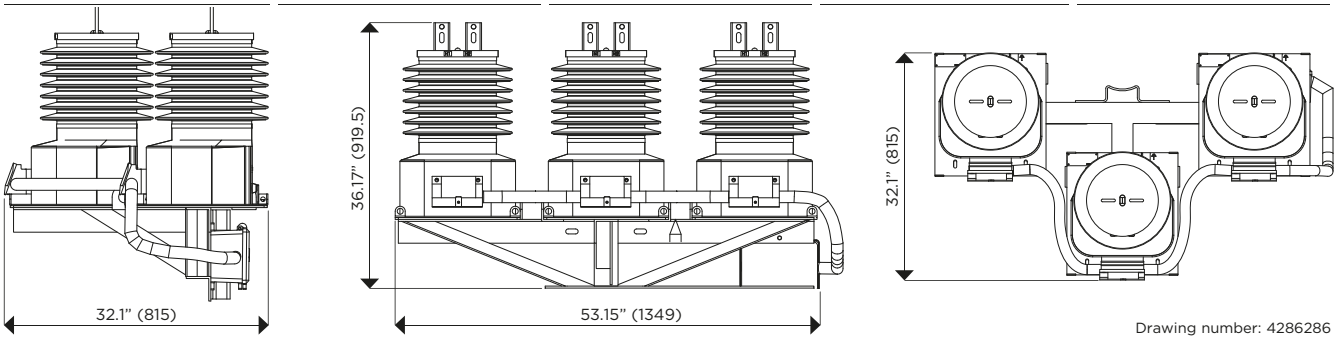
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

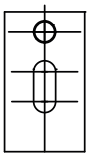
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	755	32.6	16



Drawing number: 4286286

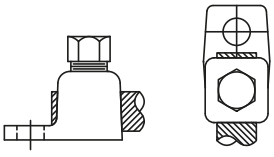
CONNECTIONS

PRIMARY TERMINAL



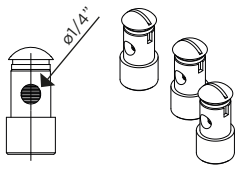
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



Type: TE-12 250 • Material: Copper
Range: 4TRE-250MCM

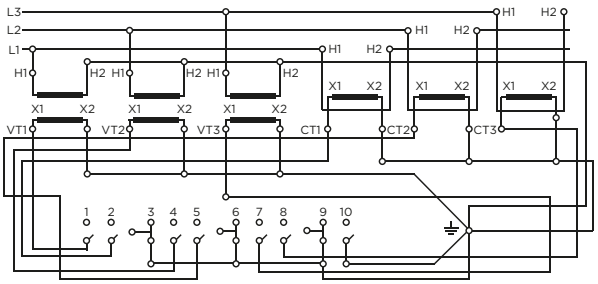
SECONDARY TERMINAL



Type: Quick Connector • Material: Brass

MARKING

CONNECTION PLATE



Approximate dimensions in inches (mm).

MK-25

25 kV METERING UNIT

Electrical characteristics

Code* (CEP)	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy [Current Transformer]	IEEE Metering Accuracy [Voltage Transformer]	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
770681016	5:5	1.5	0.5	1.4	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681026	10:5	1.5	1	2.7	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681036	15:5	1.5	1.5	4.1	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681046	20:5	1.5	2	5.4	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681056	25:5	1.5	2.5	6.8	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681066	30:5	1.5	3	8.1	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681076	40:5	1.5	4	10.8	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681086	50:5	1.5	5	13.5	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681096	75:5	1.5	7.5	20.3	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681106	100:5	1.5	10	27	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681116	150:5	1.5	15	40.5	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681126	200:5	1.5	20	54	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681136	300:5	1.5	30	81	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681146	400:5	1.5	40	108	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681156	600:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681166	800:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681176	1000:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681186	1200:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor										
770687126	200:5	3.0	20	50	0.15 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770688126	200:5	1.5	20	50	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770688176	1000:5	1.5	75	127.5	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	25	150	50	2.5

*** For HCEP Option add (–H) to the end of the code number.**
Approximate dimensions in inches.

Voltage Ratings

VT Ratio	Primary (V)	Secondary (V)	Thermal Burden (VA)	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30s (Un)
120:1	14400/24940GY	120	750	1.25	1.5

NOTE: Line-to-Ground Connection Only.

Additional VT ratios are available. Please contact Arteche for details.

Notes:

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ME-025

25 kV METERING UNIT

OUTDOOR
60 Hertz

ARTECHE ME/MK series metering units are outdoor. three-phase. pole-mounted metering racks.

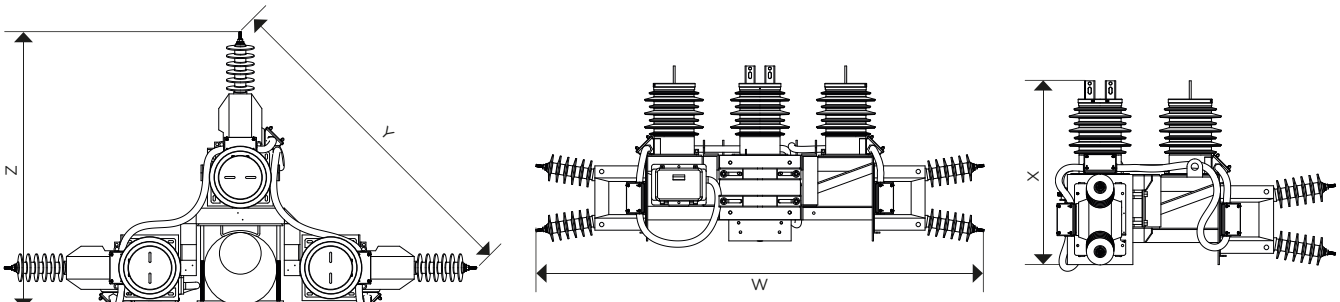
The rack is made of lightweight aluminium designed to mount on poles in an upright position. It includes two galvanized steel mounting bolts for attaching the metering unit to the pole. with pole diameters available from 8" to 14". Optional galvanized steel structures and/or other pole diameters are available upon request.

ME series incorporate 3 current transformers mounted vertically and 3 voltage transformers mounted horizontally. Their core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

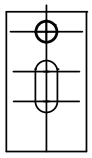
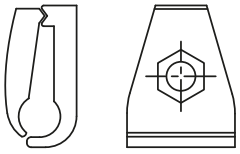
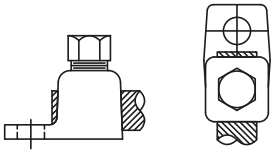
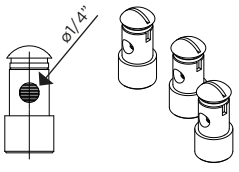
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage. achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.



Drawing number: 4287228

CONNEC-TIONS

PRIMARY TERMINAL CT	PRIMARY TERMINAL VT	GROUND CONNECTOR	SECONDARY TERMINAL
			
Type: NEMA-2 Material: Copper	Type: TE-4T Material: Copper Range: 8SOL-4TRE	Type: TE-12-250 Material: Copper Range: 4TRE-250MCM	Type: Quick Connector Material: Brass

ME-025

25 kV METERING UNIT

Characteristics

Type	Transformers		Code* (CEP)		Dimensions (in)				Weight with Aluminium Rack (lb)
	Current	Potential	With FUSE in the secondary box	Without FUSE in the secondary box	W	X	Y	Z	
ME-025	CRE-24	URJ-24	771020005	771020009	91	35.31	64.43	53.25	648
ME-025	CRE-24	VRJ-24	771020006	771020010	90.5	35.31	64.43	53	666
ME-025	CRF-24	URN-24	771020007	771020011	87.5	34.25	61.81	51.5	881
ME-025	CRF-24	VRN-24	771020008	771020012	87.34	34.25	61.81	51.5	881

*** For HCEP Option add (–H) to the end of the code number.**
Approximate dimensions in inches.
For detail electric characteristics see particular instrument transformer detail in its data sheet within this publication.

Notes:

MI-025

25 kV METERING UNIT

OUTDOOR
60 Hertz

ARTECHE MI series metering units are outdoor, three-phase, pad-mounted cabinets.

The cabinet is made of #12 caliber stainless steel lamination (2.7 mm or 0.105 in) with Munsell Green #7GY 3.29/1.5 powder finish. The doors are pad-lockable with a three point latch and a penta-head bolt.

MI series incorporate 3 combined transformers. Their core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

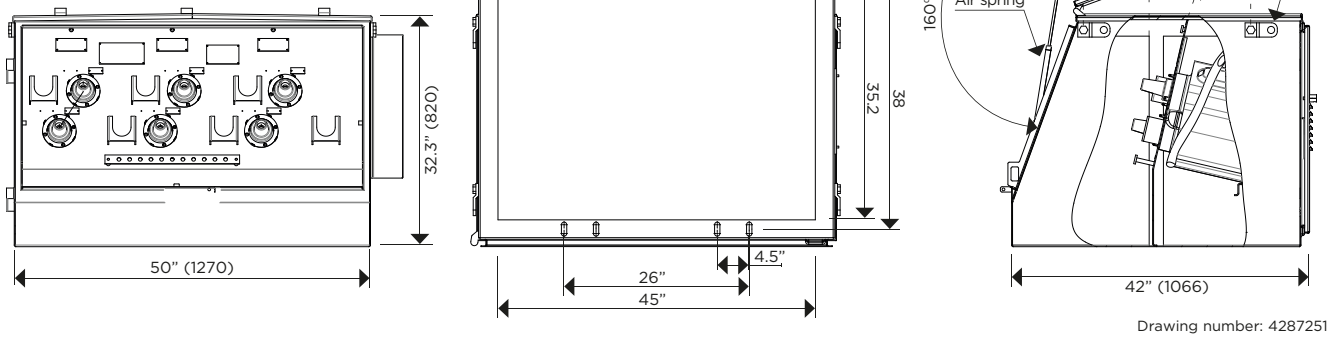
The entire surface of the transformer is coated with a conductive layer that is intended to be solidly grounded when energized. This allows for compact mounting inside switchgear or enclosures.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

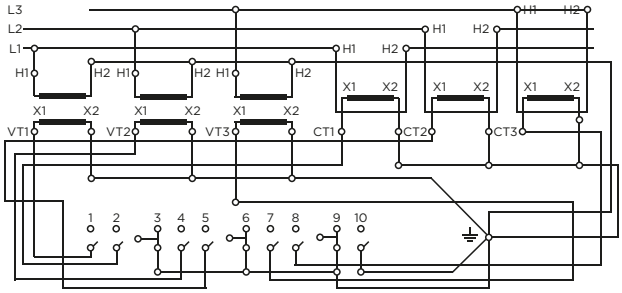
The primary bushing well connections are IEEE 386 compliant, rated 200 A loadbreak or 600 A non load-break. The secondary terminals are pre- wired to a 10 position test switch and 9S meter socket in standard red/black colors.

Mechanical characteristics		
Material	Colors	Weight (lbs.)
Stainless steel	Munsell Green	992



Drawing number: 4287251

MARKING



Approximate dimensions in inches (mm).

MI-025

25 kV METERING UNIT

Electrical characteristics

Code	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy [Current Transformer]	IEEE Metering Accuracy [Voltage Transformer]	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)		Primary
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})	
770584016	5:5	2.0	0.5	1.25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584026	10:5	2.0	1	2.5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584036	15:5	2.0	1.5	3.75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584046	20:5	2.0	2	5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584056	25:5	2.0	2.5	6.25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584066	30:5	2.0	3	7.5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584086	40:5	2.0	4	10	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584106	50:5	2.0	5	12.5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584156	75:5	2.0	7.5	18.75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584206	100:5	2.0	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770585306	150:5	1.33	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770585406	200:5	1.0	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770581136	300:5	1.5	30	75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	600 A Dead break Interface 21.1kV
770581146	400:5	1.5	40	100	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	600 A Dead break Interface 21.1kV
770581166	600:5	1.0	60	150	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	600 A Dead break Interface 21.1kV
770581106	100:5	2.0	10	25	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770581126	200:5	2.0	20	50	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	600 A Dead break Interface 21.1kV
770581156	600:5	1.0	48	120	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	600 A Dead break Interface 21.1kV

* Accuracy range: 1% to RF

Voltage Ratings

VT Ratio	Primary (V)	Secondary (V)	Thermal Burden (VA)	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30s (Un)
120:1	14400/24940GY	120	750	1.1	1.25

Additional VT ratios are available. Please contact Arteche for details.

Notes:

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KM-34

34.5 kV COMBINED TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE KM series are dry type outdoor service combination CT-PT. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

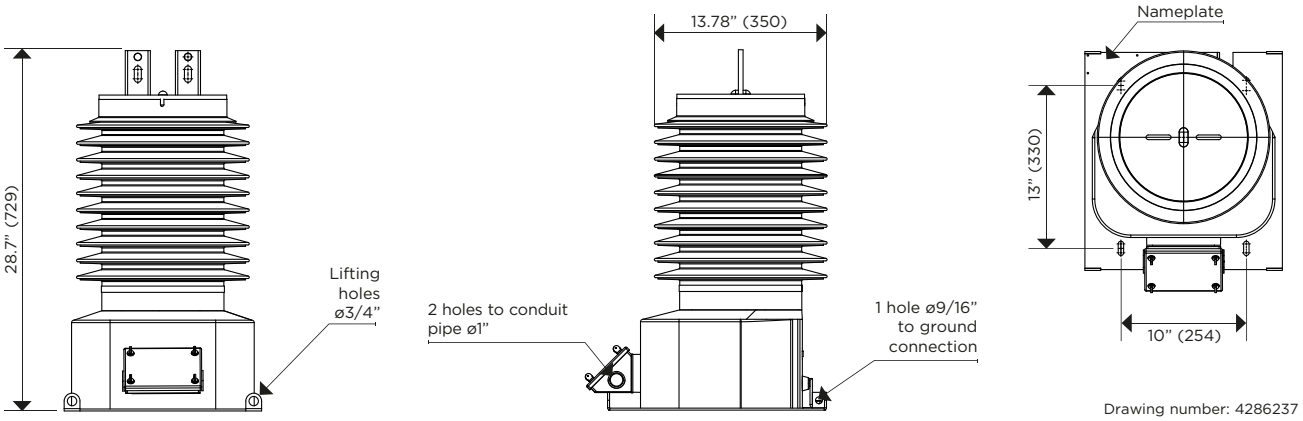
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed IEEE C57.13 2016 requirements

Mechanical characteristics

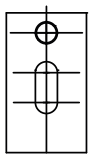
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	264	46	21



Drawing number: 4286237

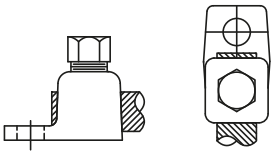
CONNECTIONS

PRIMARY TERMINAL



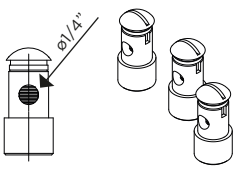
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



Type: TE-12 250
Material: Copper
Range: 4TRE-250MCM

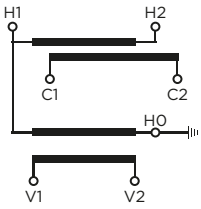
SECONDARY TERMINAL



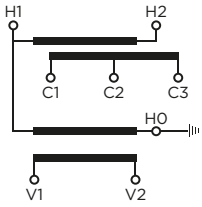
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

KM-34

34.5 kV COMBINED TRANSFORMER

Electrical characteristics

Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy [Current Transformer]	IEEE Metering Accuracy [Voltage Transformer]	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
770073017	770076026-H	5:5	3.0	0.5	1.4	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073027	770076025-H	10:5	3.0	1	2.7	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073037	770076024-H	15:5	3.0	1.5	4.1	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073047	770076023-H	20:5	3.0	2	5.4	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073057	770076022-H	25:5	3.0	2.5	6.8	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073067	770076021-H	30:5	3.0	3	8.1	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073077	770076020-H	40:5	3.0	4	10.8	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073089	770073088-H	50:5	3.0	5	13.5	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073097	770076018-H	75:5	3.0	7.5	20.3	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073107	770076017-H	100:5	3.0	10	27	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073117	770076016-H	150:5	3.0	15	40.5	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073127	770076015-H	200:5	3.0	20	54	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073137	770076014-H	300:5	3.0	30	81	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073147	770076013-H	400:5	3.0	40	108	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073157	770076012-H	600:5	2.0	60	162	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770071167	770076029-H	800:5	1.5	60	162	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770071177	770076028-H	1000:5	1.2	60	162	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770071187	770076027-H	1200:5	1.0	60	162	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770074047	770076010-H	10/20:5	2.0/1.5	2	5,4	0.3B-0.5/B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770074087	770076009-H	25/50:5	2.0/1.5	5	13,5	0.3B-0.5/B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770074127	770076008-H	100/200:5	2.0/1.5	20	54	0.3B-0.5/B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770074157	770076007-H	300/600:5	2.0/1.5	60	162	0.3B-0.5/B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770074167	770076006-H	400/800:5	2.0/1.5	60	162	0.3B-0.5/B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073167	770076011-H	400/800:5	3.0/1.5	60	162	0.3B-0.5/B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770074177	770076005-H	500/1000:5	2.0/1.2	60	162	0.3B-0.5/B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770074187	770076004-H	600/1200:5	2.0/1.0	60	162	0.3B-0.5/B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
770077127	770076003-H	200:5	3.0	20	50	0.15 B-0.5	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770078127	770076002-H	200:5	1.5	20	50	0.15 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770078177	770076001-H	1000:5	1.5	75	127.5	0.15 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5

Approximate dimensions in inches.

Voltage Ratings

VT Ratio	Primary (V)	Secondary (V)	Thermal Burden (VA)	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30s (Un)
175:1	20125/34500GY	115	750	1.25	1.5

NOTE: Line-to-Ground Connection Only.

Additional VT ratios are available. Please contact Arteche for details.

Notes:

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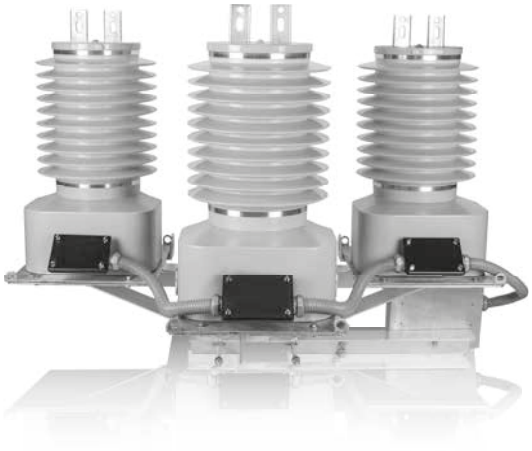
MK-34

34.5 kV METERING UNIT



OUTDOOR
60 Hertz

ARTECHE ME/MK series metering units are outdoor, three-phase, pole-mounted metering racks.

The rack is made of lightweight aluminium designed to mount on poles in an upright position. It includes two galvanized steel mounting bolts for attaching the metering unit to the pole, with pole diameters available from 8" to 14". Optional galvanized steel structures and/or other pole diameters are available upon request.

MK series incorporate 3 combined transformers mounted vertically. Their core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

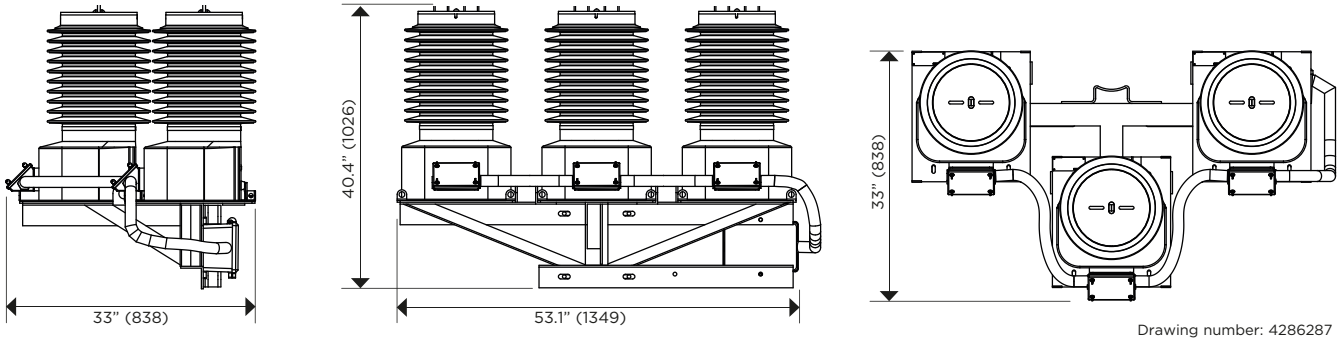
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

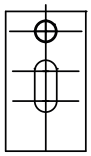
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	857	46	21



Drawing number: 4286287

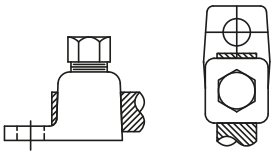
CONNECTIONS

PRIMARY TERMINAL



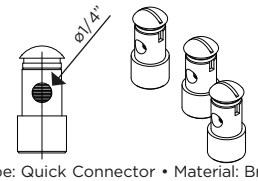
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



Type: TE-12 250 • Material: Copper
Range: 4TRE-250MCM

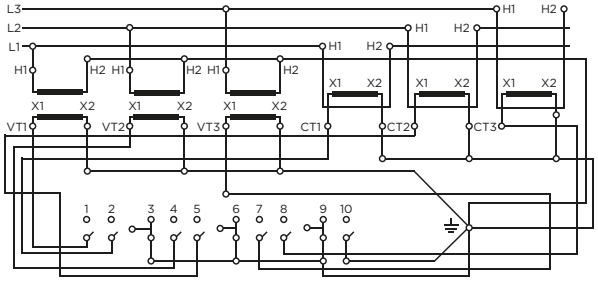
SECONDARY TERMINAL



Type: Quick Connector • Material: Brass

MARKING

CONNECTION PLATE



Approximate dimensions in inches (mm).

MK-34

34.5 kV METERING UNIT

Electrical characteristics

Code* (CEP)	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy [Current Transformer]	IEEE Metering Accuracy [Voltage Transformer]	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
									Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
770693017	5:5	3.0	0.5	1.4	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693027	10:5	3.0	1	2.7	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693037	15:5	3.0	1.5	4.1	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693047	20:5	3.0	2	5.4	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693057	25:5	3.0	2.5	6.8	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693067	30:5	3.0	3	8.1	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693077	40:5	3.0	4	10.8	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693087	50:5	3.0	5	13.5	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693097	75:5	3.0	7.5	20.3	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693107	100:5	3.0	10	27	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693117	150:5	3.0	15	40.5	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693127	200:5	3.0	20	54	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693137	300:5	3.0	30	81	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693147	400:5	3.0	40	108	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693157	600:5	2.0	60	162	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693167	800:5	1.5	60	162	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693177	1000:5	1.2	60	162	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693187	1200:5	1.0	60	162	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor										
770697127	200:5	3.0	20	54	0.15 B-0.5	0.3 W,X,M,Y/0.6Z	34.5	200	70	2.5
770698127	200:5	1.5	20	54	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	34.5	200	70	2.5
770698177	1000:5	1.5	75	127.5	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	34.5	200	70	2.5

*** For HCEP Option add (–H) to the end of the code number.**
Approximate dimensions in inches.

Voltage Ratings

VT Ratio	Primary (V)	Secondary (V)	Thermal Burden (VA)	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30s (Un)
175:1	20125/34500GY	115	750	1.25	1.5

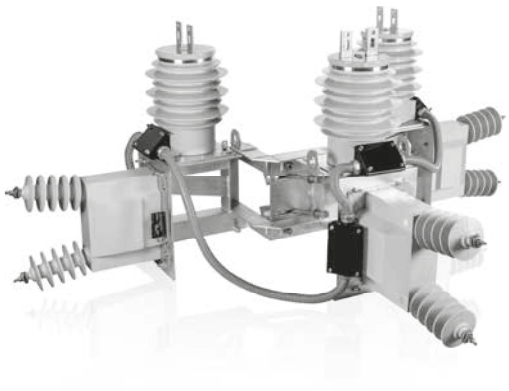
NOTE: Line-to-Ground Connection Only.

Additional VT ratios are available. Please contact Arteche for details.

Notes:

ME-036

34.5 kV METERING UNIT



OUTDOOR
60 Hertz

ARTECHE ME/MK series metering units are outdoor. three-phase. pole-mounted metering racks.

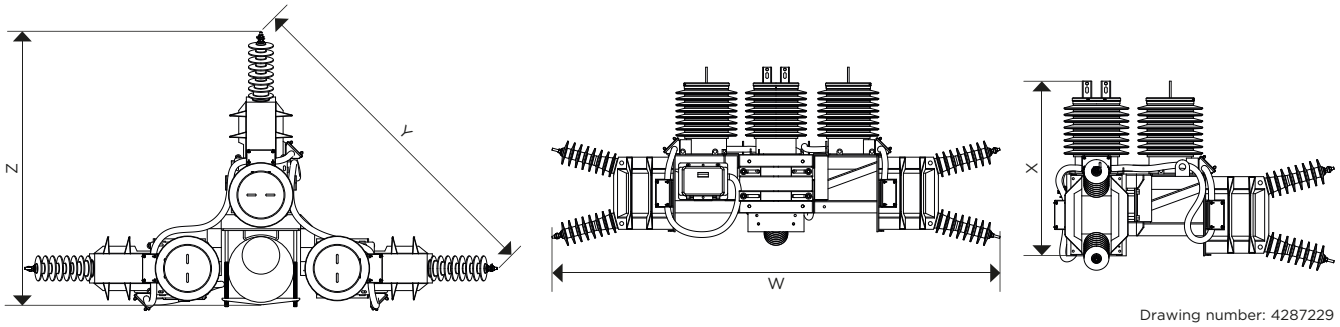
The rack is made of lightweight aluminium designed to mount on poles in an upright position. It includes two galvanized steel mounting bolts for attaching the metering unit to the pole. with pole diameters available from 8" to 14". Optional galvanized steel structures and/or other pole diameters are available upon request.

ME series incorporate 3 current transformers mounted vertically and 3 voltage transformers mounted horizontally. Their core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. The transformer is maintenance free.

The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

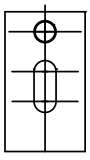
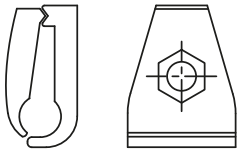
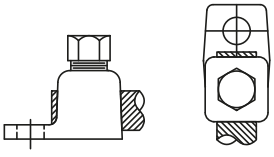
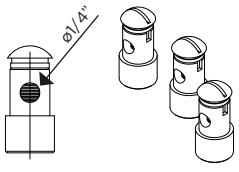
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical stresses in adverse operating conditions.

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.



Drawing number: 4287229

CONNEC-TIONS

PRIMARY TERMINAL CT	PRIMARY TERMINAL VT	GROUND CONNECTOR	SECONDARY TERMINAL
			
Type: NEMA-2 Material: Copper	Type: TE-4T Material: Copper Range: 8SOL-4TRE	Type: TE-12-250 Material: Copper Range: 4TRE-250MCM	Type: Quick Connector Material: Brass

ME-036

34.5 kV METERING UNIT

Characteristics

Type	Transformers		Code* (CEP)		Dimensions (in)				Weight with Aluminium Rack (lb)
	Current	Potential	With FUSE in the secondary box	Without FUSE in the secondary box	W	X	Y	Z	
ME-036	CRF-36	URS-36	771010003	771010005	102.5	37	72.5	59	1060
ME-036	CRF-36	VRS-36	771010004	771010006	100.75	37	66.75	58.12	1087

*** For HCEP Option add (–H) to the end of the code number.**
Approximate dimensions in inches.
For detail electric characteristics see particular instrument transformer detail in its data sheet within this publication.

Notes: .....

arteche
Moving together

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› ARTECHE USA Inc.

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Version: E3