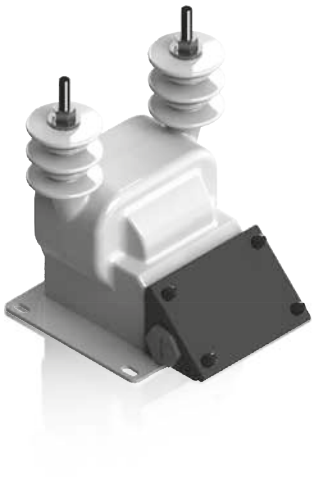
arteche

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.

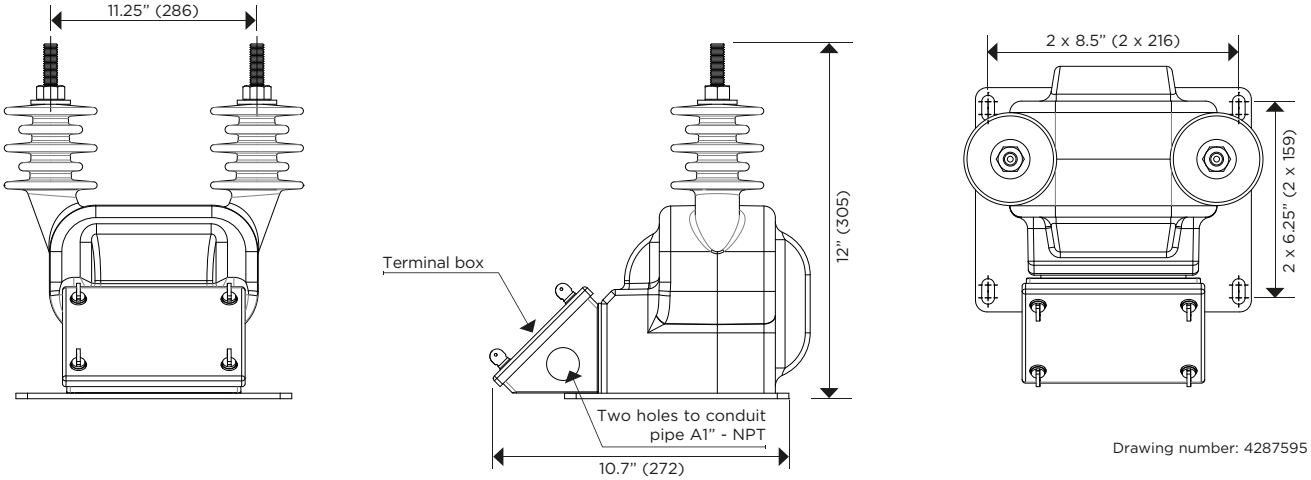
The core and coils are encapsulated with Cycloaliphatic Epoxy Resin (CEP) which provides excellent dielectric properties, mechanical strength, resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life.
URL-7/VRL-7 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

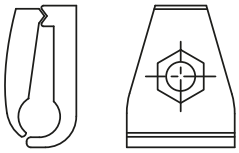
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	40	15.8	3



Drawing number: 4287595

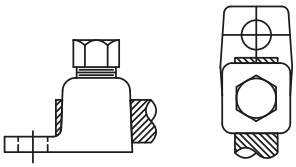
CONNECTIONS

PRIMARY TERMINAL



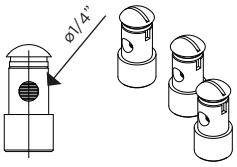
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



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

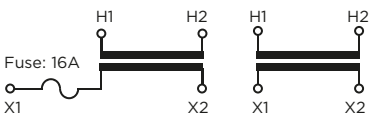
SECONDARY TERMINAL



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.

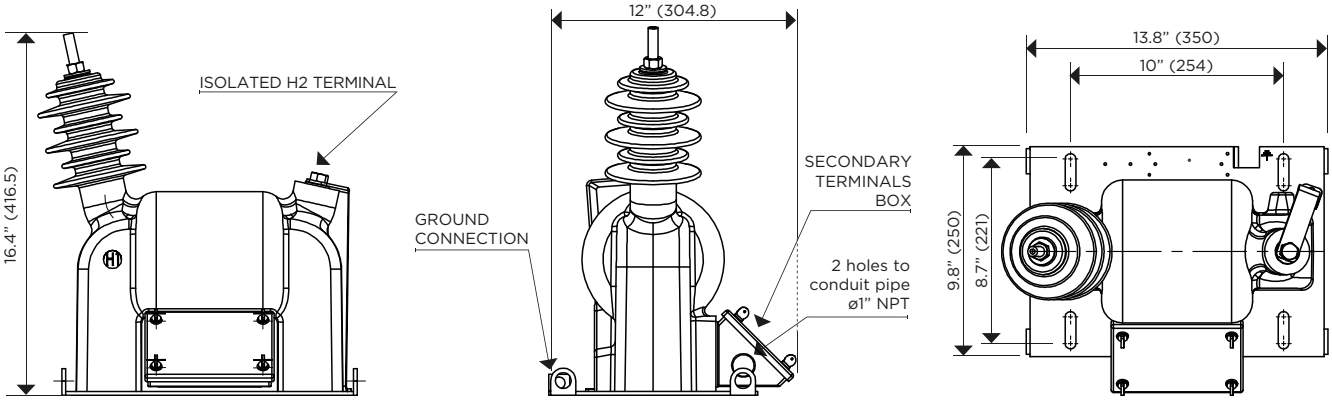
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

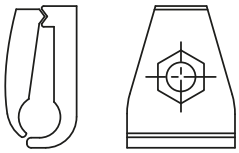
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	68.5	25.75	11.5



Drawing number: 4288685

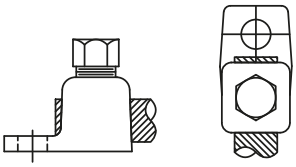
CONNECTIONS

PRIMARY TERMINAL



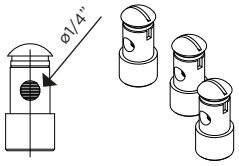
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



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

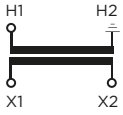
SECONDARY TERMINAL



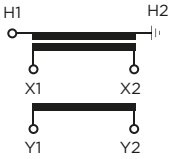
Type: Quick Connector
Material: Brass

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.

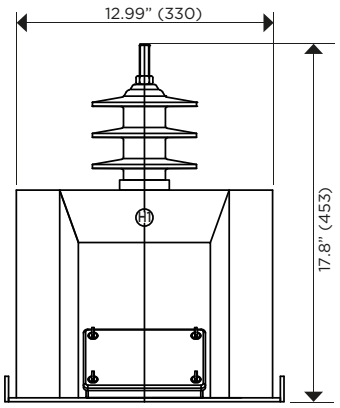
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

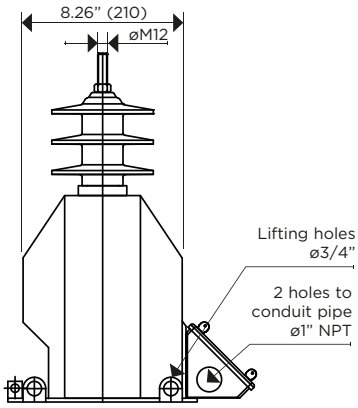
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

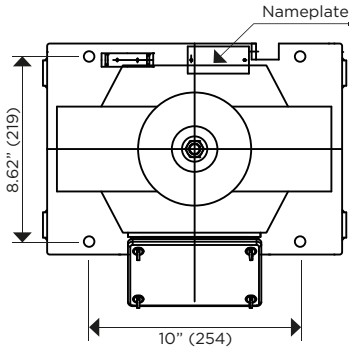
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



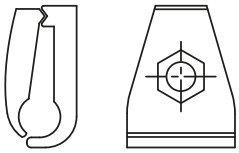




Drawing number:
Fused: 4286572 / 4286596⁺
Unfused: 4286820

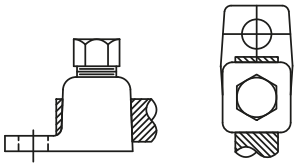
CONNECTIONS

PRIMARY TERMINAL



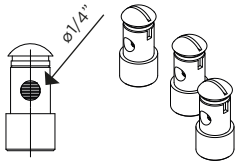
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



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

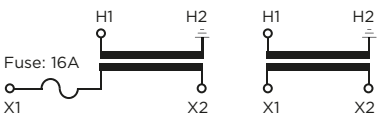
SECONDARY TERMINAL



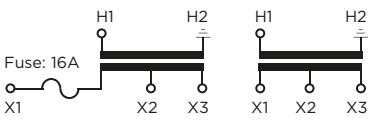
Type: Quick Connector
Material: Brass

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.

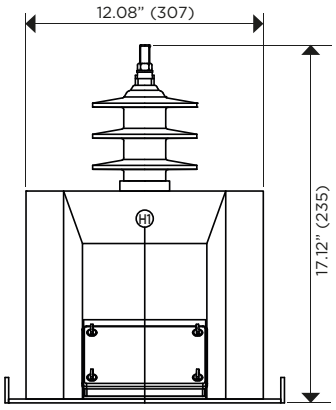
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

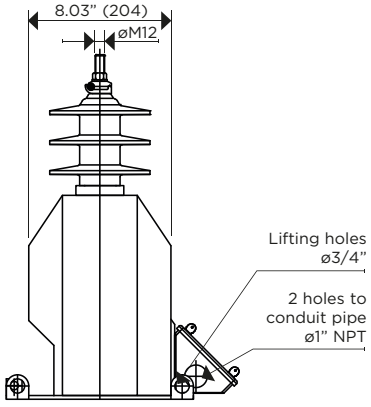
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

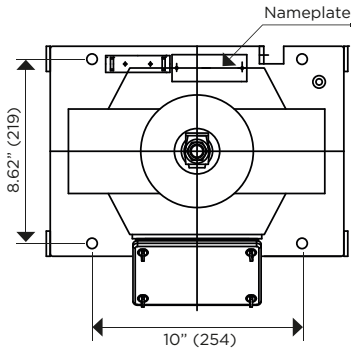
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



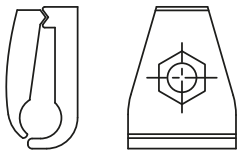




Drawing number:
Fused: 4286570
Unfused: 4286769

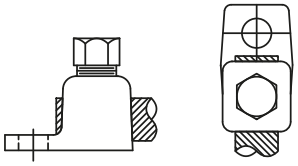
CONNECTIONS

PRIMARY TERMINAL



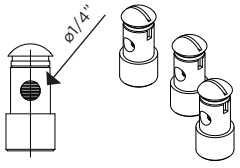
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



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

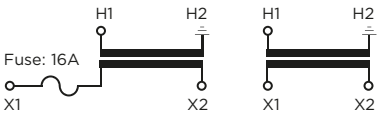
SECONDARY TERMINAL



Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY



FUSED UNFUSED

Approximate dimensions in inches (mm).

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.

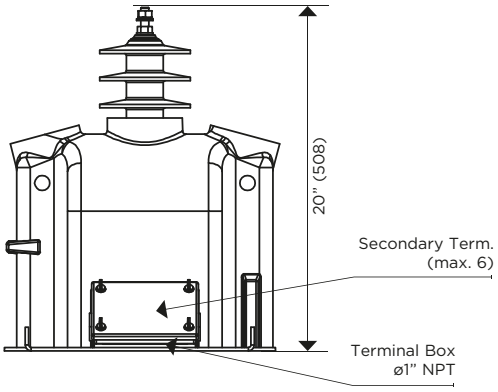
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

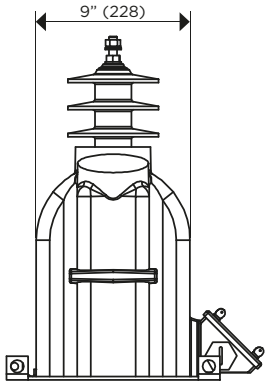
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

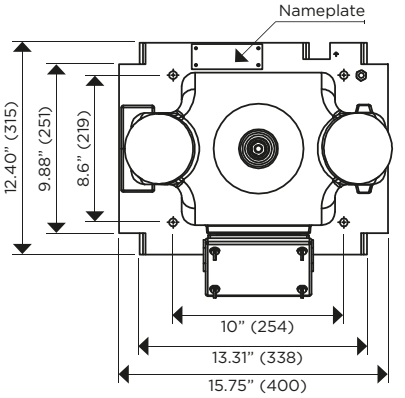
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



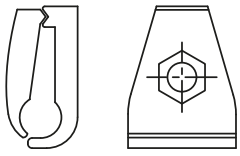




Drawing number:
Fused: 4288939 | Unfused: 4288802

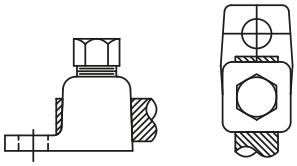
CONNECTIONS

PRIMARY TERMINAL



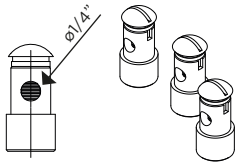
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



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

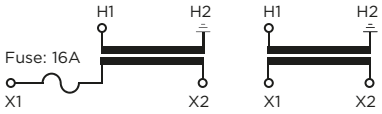
SECONDARY TERMINAL



Type: Quick Connector
Material: Brass

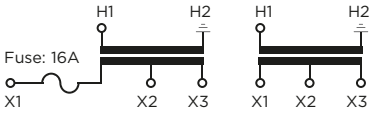
MARKING (Single Primary Ratio)

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.

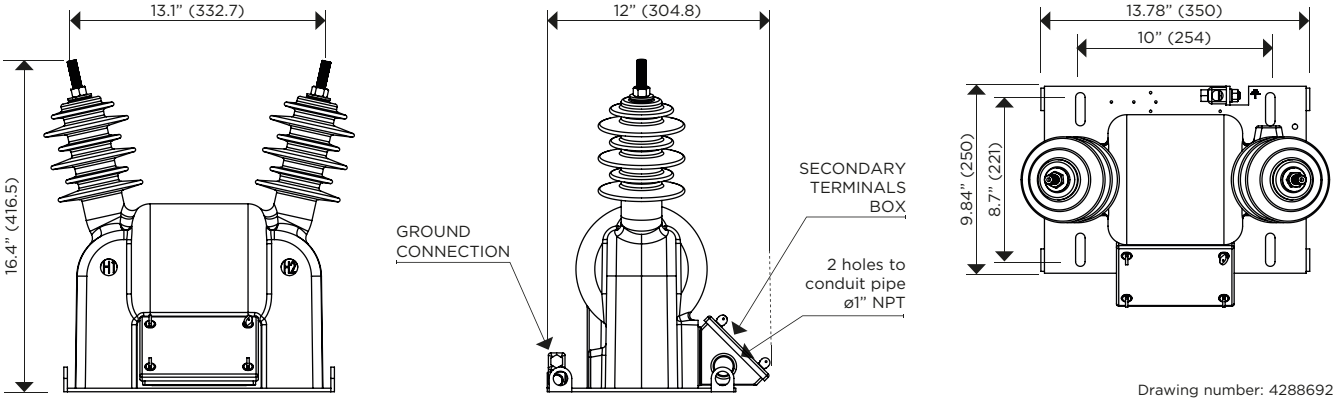
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

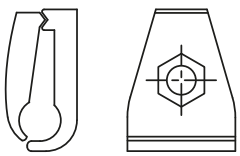
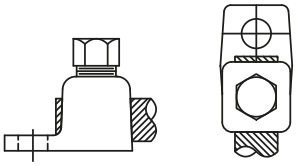
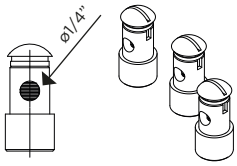
Mechanical characteristics

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

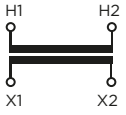
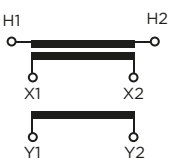


Drawing number: 4288692

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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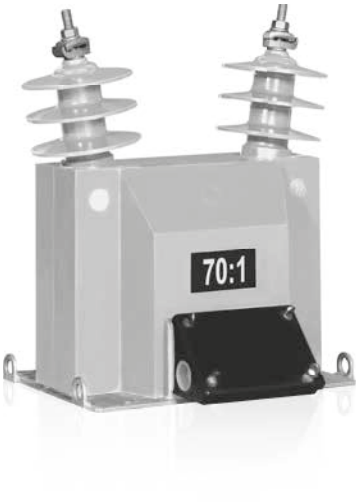
VRJ-17

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.

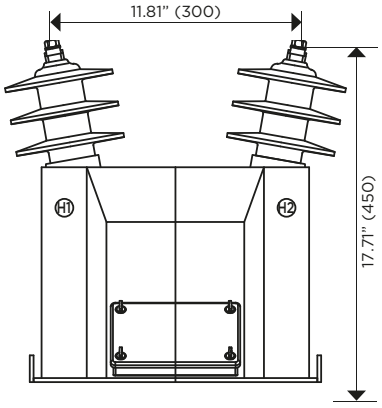
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

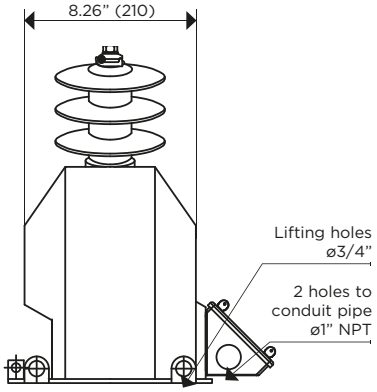
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

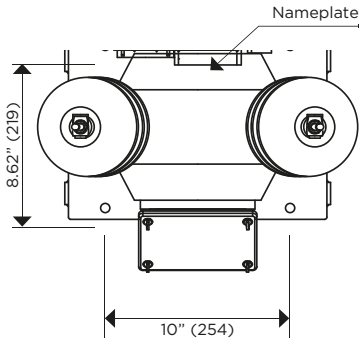
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



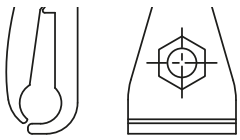




Drawing number:
Fused: 4286571
Unfused: 4286770

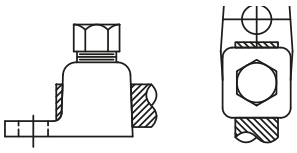
CONNECTIONS

PRIMARY TERMINAL



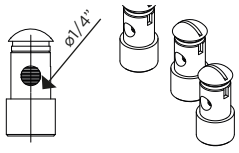
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



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

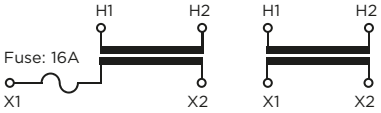
SECONDARY TERMINAL



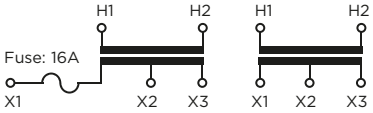
Type: Quick Connector
Material: Brass

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.

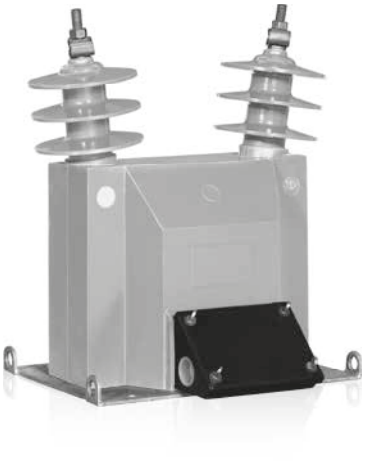
VRJ-17

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.

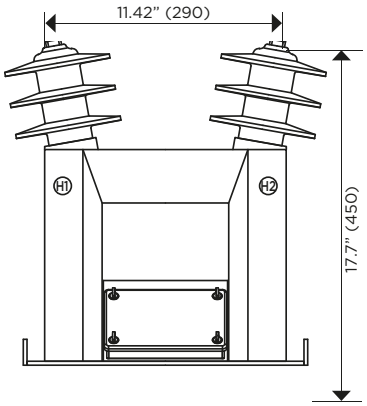
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

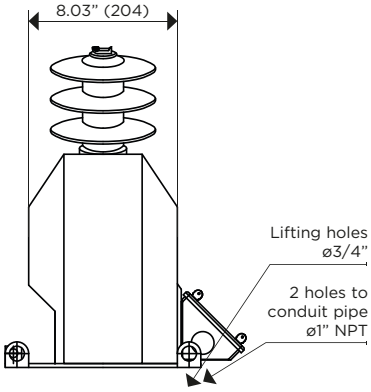
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

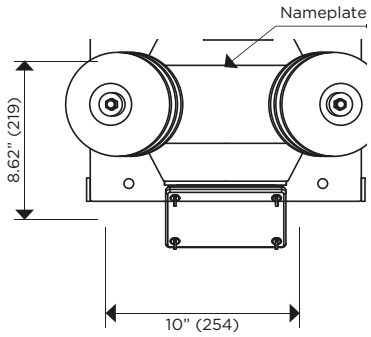
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



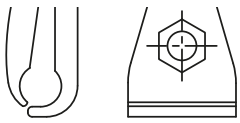




Drawing number:
Fused: 4286569
Unfused: 4286774

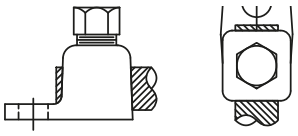
CONNECTIONS

PRIMARY TERMINAL



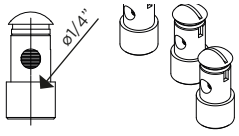
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



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

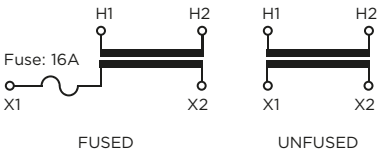
SECONDARY TERMINAL



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.

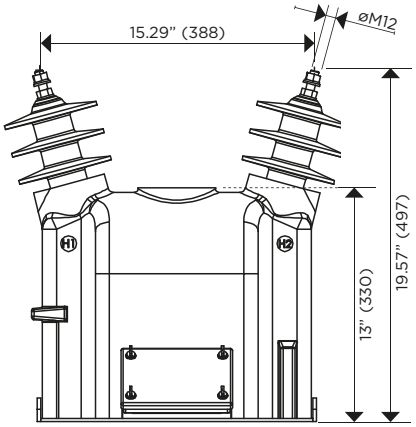
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

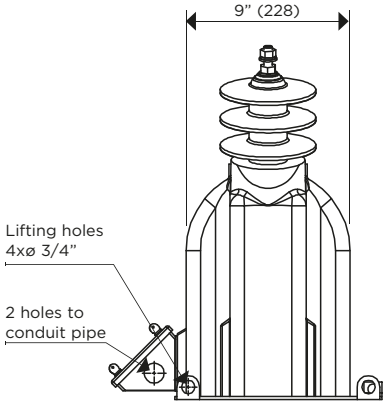
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

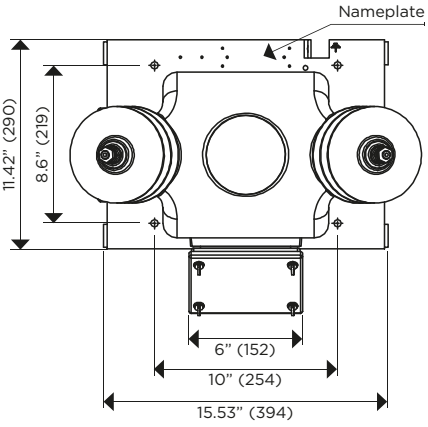
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



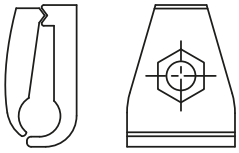




Drawing number:
Fused: 4289005 | Unfused: 4288513

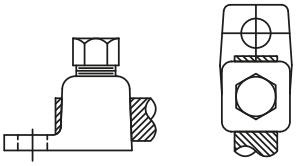
CONNECTIONS

PRIMARY TERMINAL



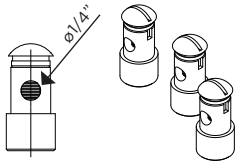
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



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

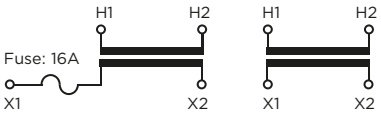
SECONDARY TERMINAL



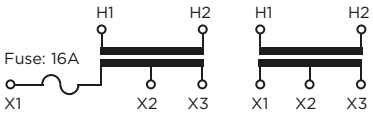
Type: Quick Connector
Material: Brass

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)	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												
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.

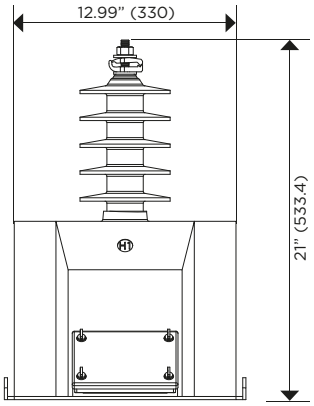
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

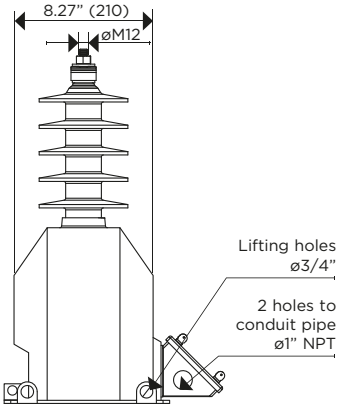
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

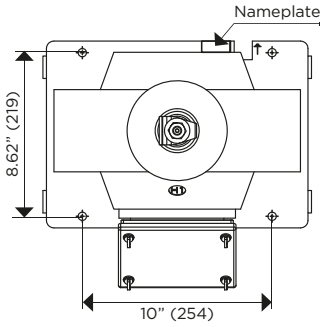
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)
Resin	Gray	93



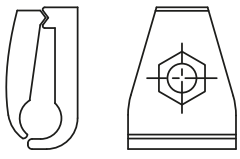




Drawing number:
Fused: 4286593
Unfused: 4286823

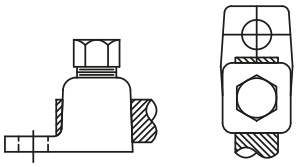
CONNECTIONS

PRIMARY TERMINAL



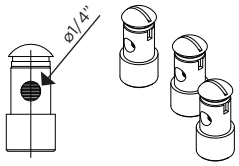
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



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

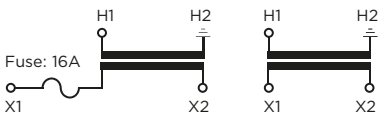
SECONDARY TERMINAL



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.

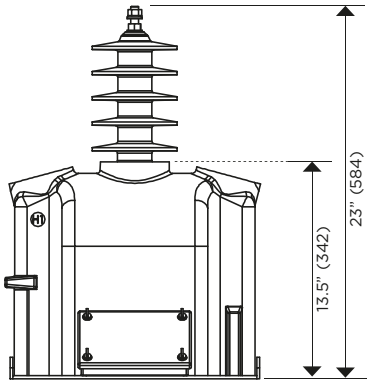
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

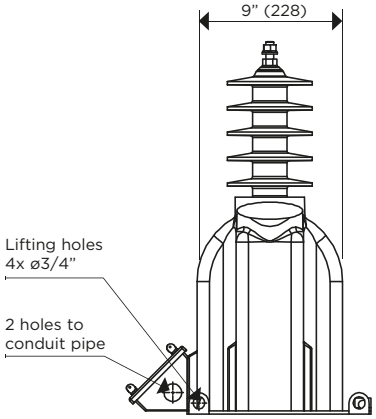
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

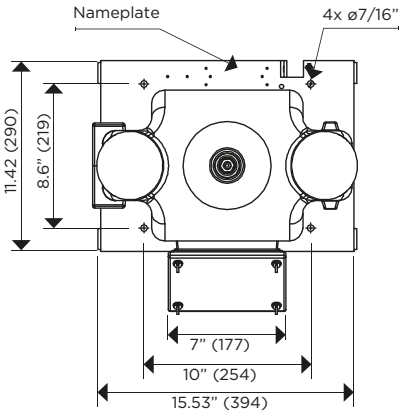
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



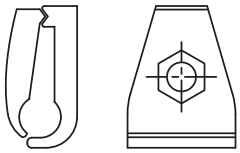




Drawing number:
Fused: 4289008 | Unfused: 4287740

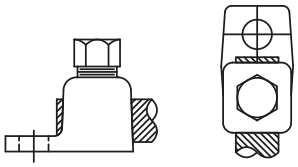
CONNECTIONS

PRIMARY TERMINAL



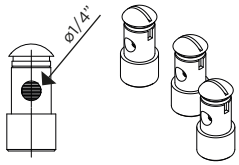
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



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

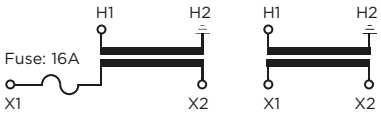
SECONDARY TERMINAL



Type: Quick Connector
Material: Brass

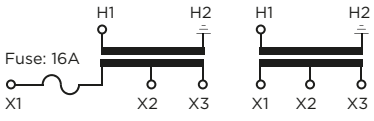
MARKING (Single Primary Ratio)

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.

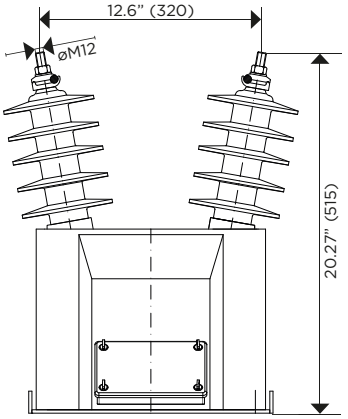
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

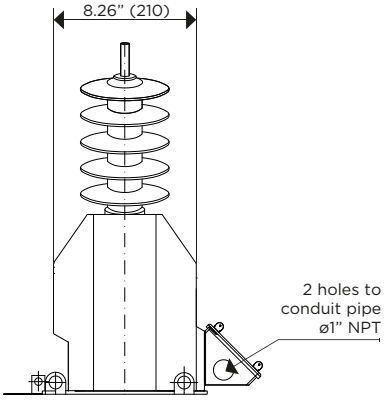
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

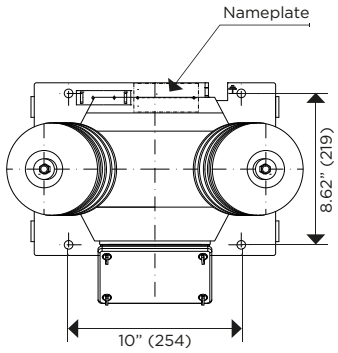
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



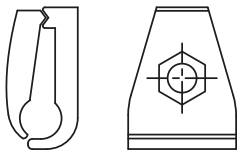




Drawing number:
Fused: 4286574
Unfused: 4286824

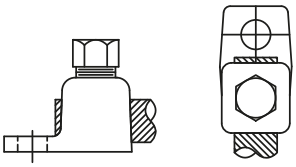
CONNECTIONS

PRIMARY TERMINAL



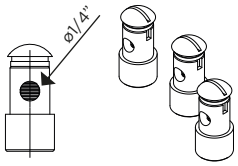
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



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

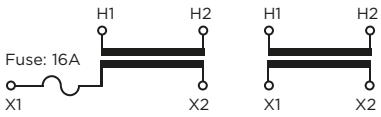
SECONDARY TERMINAL



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.

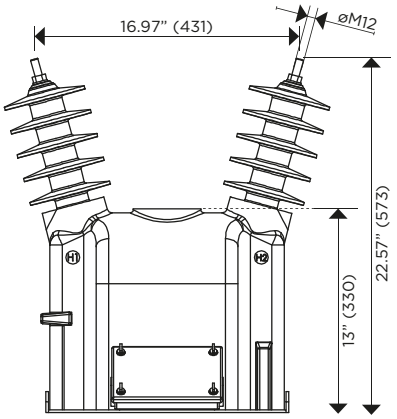
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

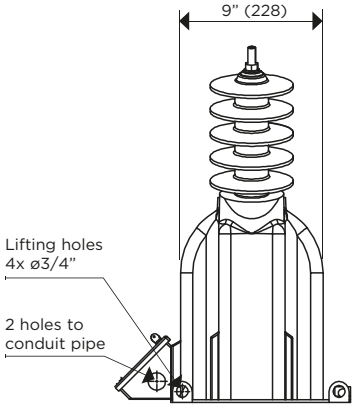
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

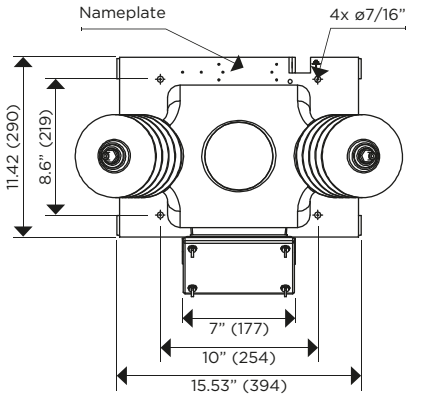
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



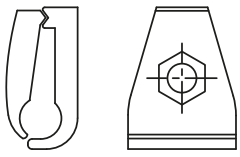




Drawing number:
Fused: 4289002 | Unfused: 4287757

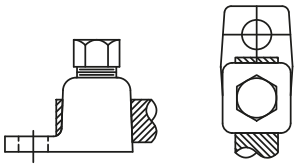
CONNECTIONS

PRIMARY TERMINAL



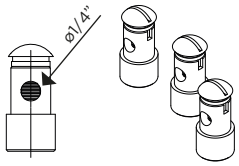
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



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

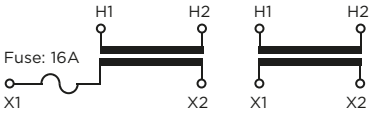
SECONDARY TERMINAL



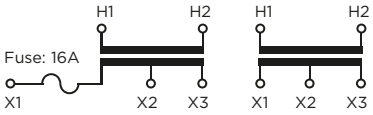
Type: Quick Connector
Material: Brass

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.

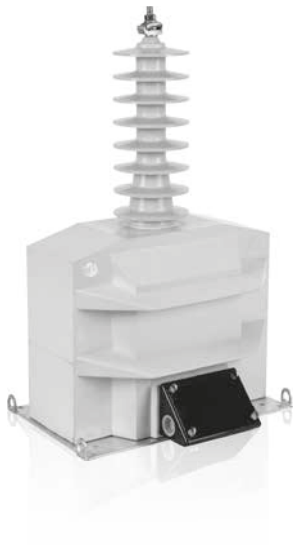
VRN-24

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.

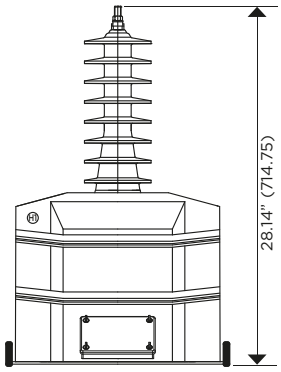
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

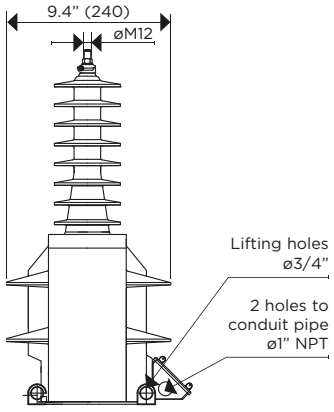
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

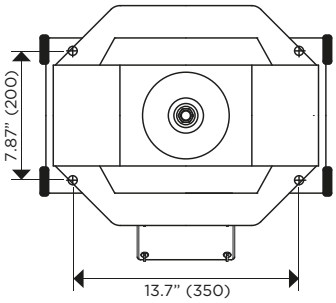
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



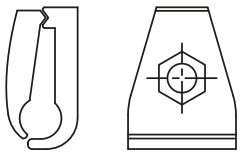




Drawing number:
Fused: 4286578
Unfused: 4286773

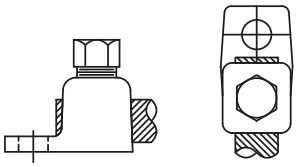
CONNECTIONS

PRIMARY TERMINAL



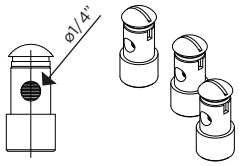
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



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

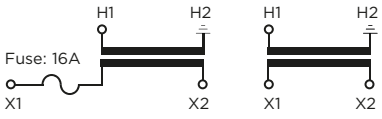
SECONDARY TERMINAL



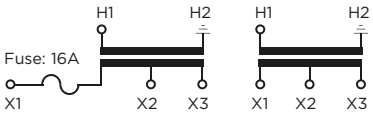
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY



ONE SECONDARY WITH TAP



Approximate dimensions in inches (mm).

URS-36

34.5 kV VOLTAGE TRANSFORMER

Electrical characteristics

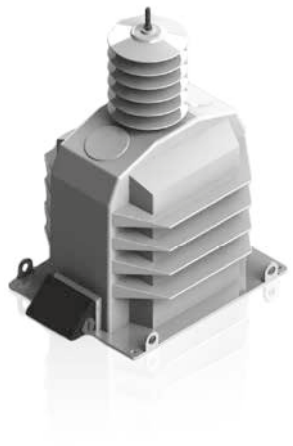
Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secon-dary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (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.

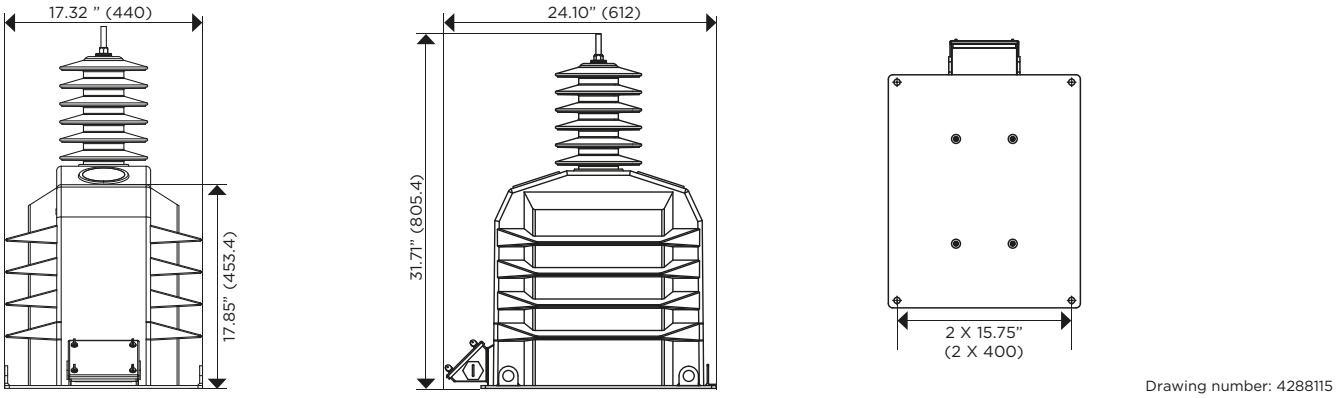
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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

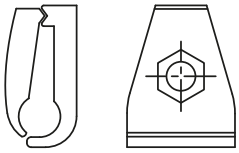
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	273	50.5	25.2



Drawing number: 4288115

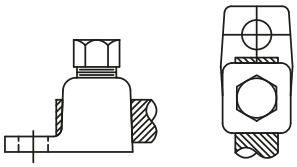
CONNECTIONS

PRIMARY TERMINAL



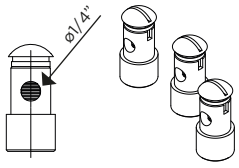
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



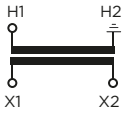
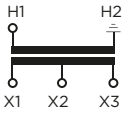
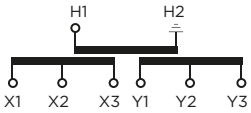
Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

SECONDARY TERMINAL



Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY	ONE SECONDARY WITH TAP	TWO SECONDARY WITH TAP
		

Approximate dimensions in inches (mm).

URU-36

34.5 kV VOLTAGE TRANSFORMER

Electrical characteristics

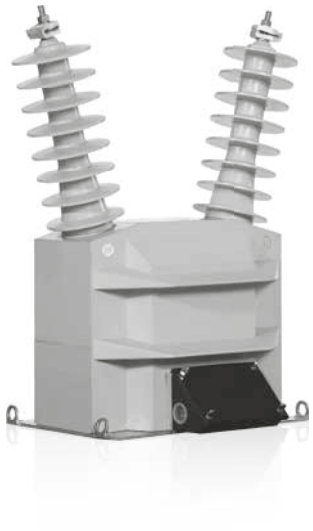
Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Conti-nuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (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.

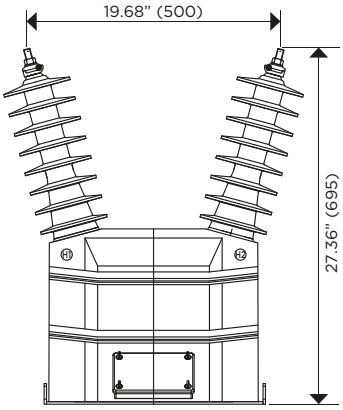
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

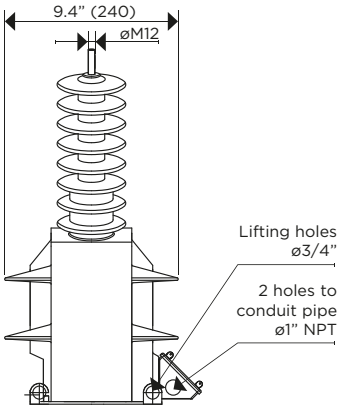
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

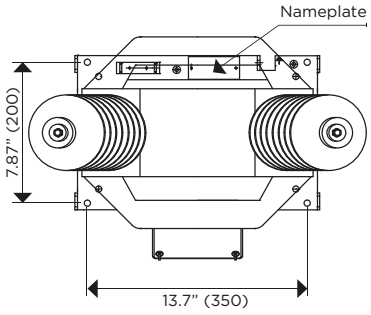
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



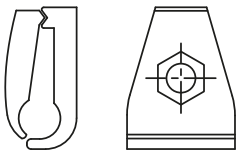




Drawing number:
Fused: 4286579
Unfused: 4286825

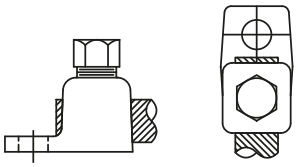
CONNECTIONS

PRIMARY TERMINAL



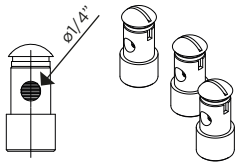
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



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

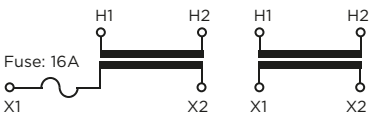
SECONDARY TERMINAL



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

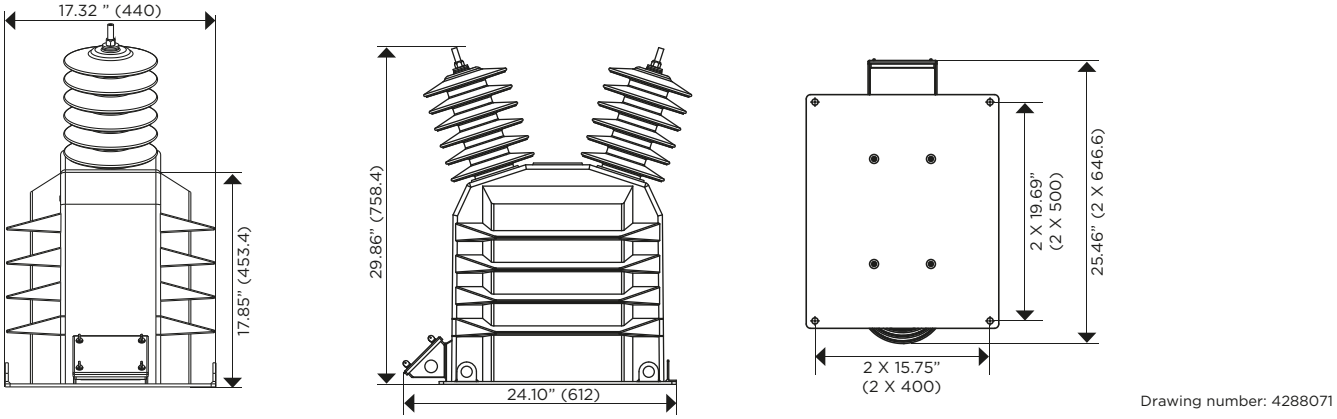
ARTECHE UR/VR series are dry type outdoor service voltage transformers. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and 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.

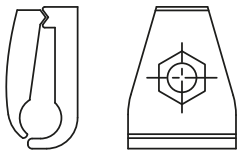
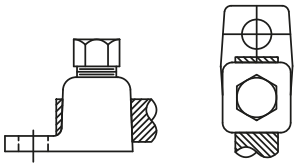
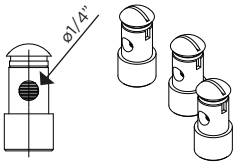
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

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

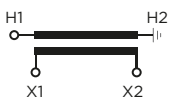
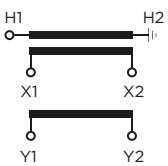
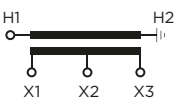
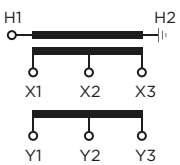


Drawing number: 4288071

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.

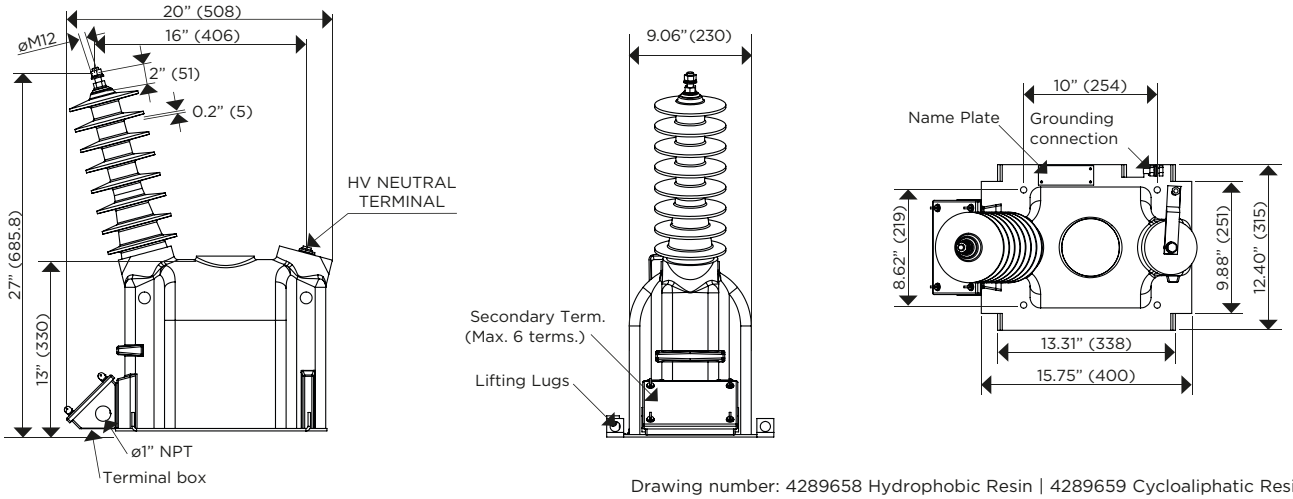
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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

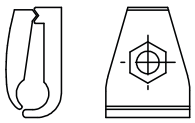
Insulation Material	Colors	Weight (lb)	Creepage distance (in)	Strike distance (in)
Epoxy resin	Gray	136	44.09	18



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

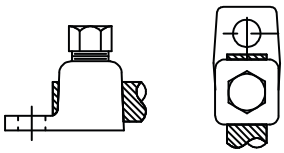
CONNECTIONS

PRIMARY TERMINAL



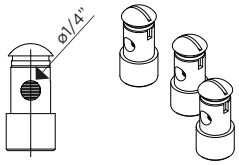
Type: TE-4T
Material: Cooper
Range: 8SOL-4TRE

GROUND TERMINAL



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

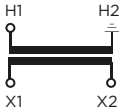
SECONDARY TERMINAL



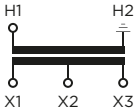
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

SINGLE SECONDARY



ONE SECONDARY WITH TAP



URN-36

36 kV VOLTAGE TRANSFORMER (INSULATED H2)

OUTDOOR VOLTAGE TRANSFORMER CATALOG

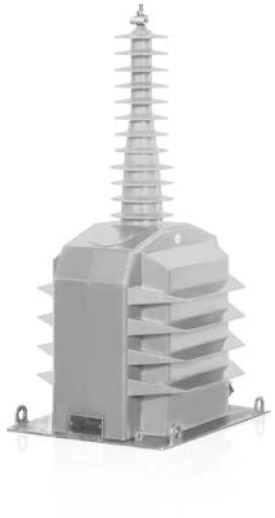
Code (CEP)	Code (HCEP)	Connection	Fusing	Ratio	Primary	Secondary	Accuracy / Burden	Rated continuous Voltage [Un]
				166:1	19920/34500GY	120		
757840101	757840104-H	LINE-GROUND	Unfused	175:1	20125/34857GY	115	0.3 W,X,M,Y	1.1 Un
757840102	757840105-H			175/300:1	20125/34857GY	115/67.08		

					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.

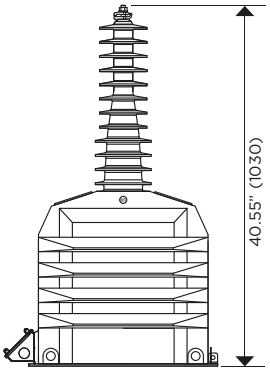
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

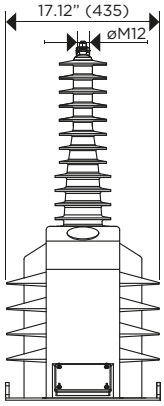
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

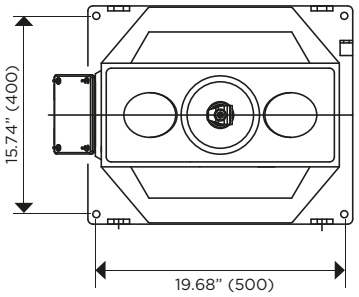
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



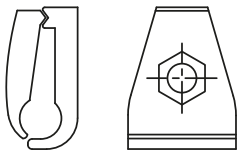




Drawing number: 9449585

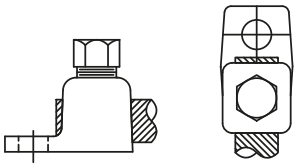
CONNECTIONS

PRIMARY TERMINAL



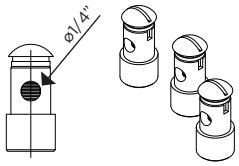
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



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

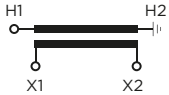
SECONDARY TERMINAL



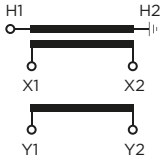
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

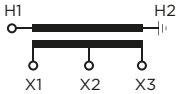
ONE SECONDARY



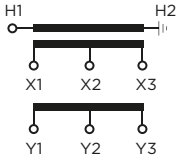
TWO SECONDARIES



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

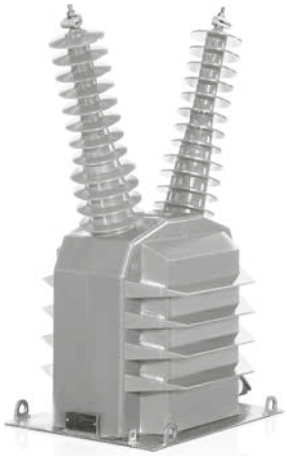
*The burden on any two secondary terminals affects the accuracy on all other terminals. The burden stated in the accuracy ratings is the total burden on the transformer. The accuracy class shall apply with the burden divided between the secondary outputs in any manner, unless otherwise specified in detail.

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.

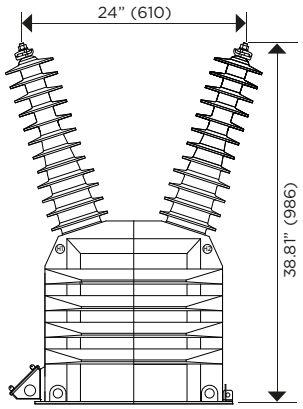
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

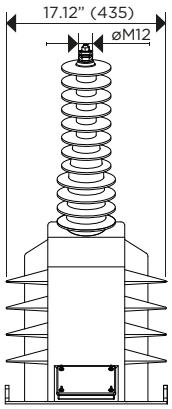
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

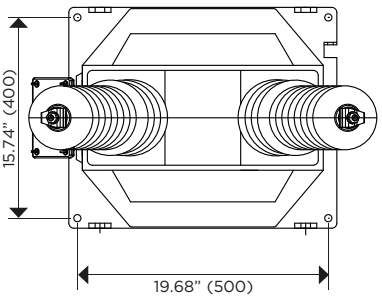
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



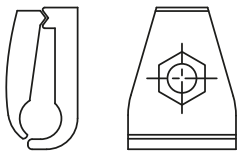




Drawing number: 9449540

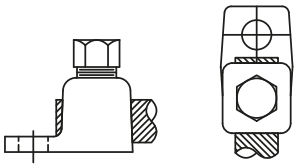
CONNECTIONS

PRIMARY TERMINAL



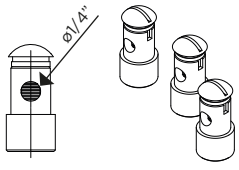
Type: TE-4T
Material: Copper
Range: 8SOL-4TRE

GROUND TERMINAL



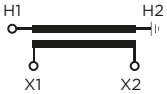
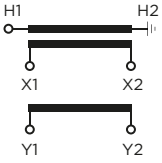
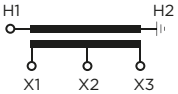
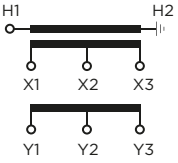
Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

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.

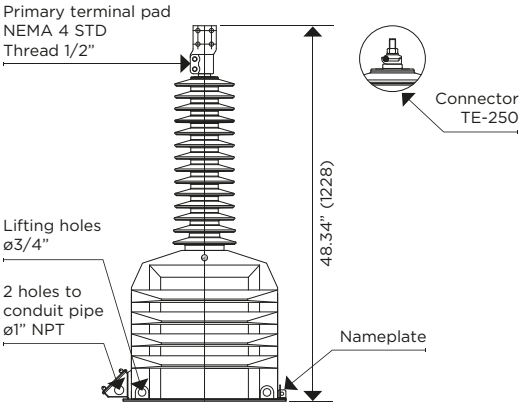
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

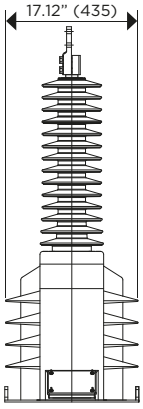
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

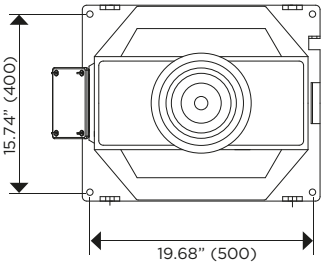
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



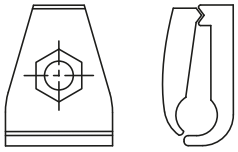




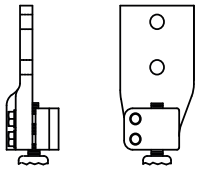
Drawing number: 9449551

CONNECTIONS

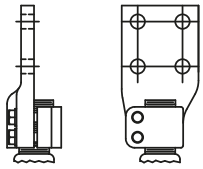
PRIMARY TERMINAL



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

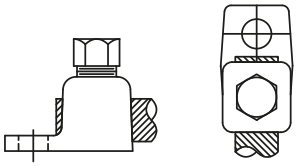


Type: NEMA-2
Material: Copper



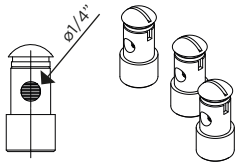
Type: NEMA-4
Material: Copper

GROUND TERMINAL



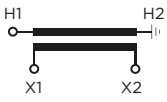
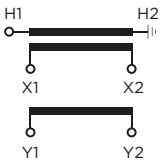
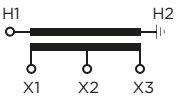
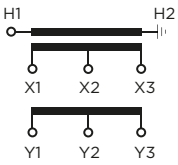
Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

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

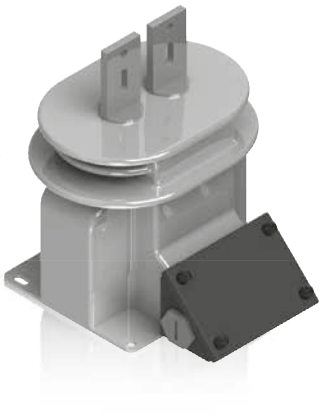
Code (CEP)	Code (HCEP)	Ratio	Primary (V)	Secondary (V)	IEEE Metering Accuracy	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30 s (Un)	Thermal Burden (VA)	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
											Primary & Secondary (kV_{rms})	Secondary Winding (kV_{rms})
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.

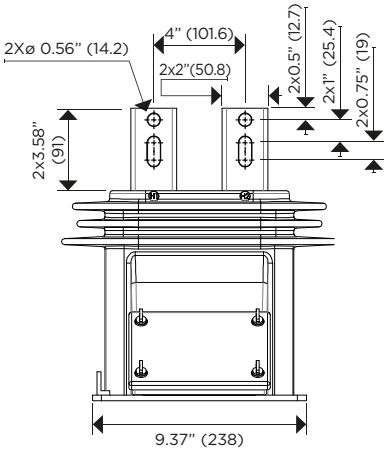
The core and coils are encapsulated with Cycloaliphatic Epoxy Resin (CEP) which provides excellent dielectric properties, mechanical strength, resistance to ultraviolet rays and the effects of tracking and erosion on the exterior of the transformer ensuring a long mechanical and electrical life. CRE-7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

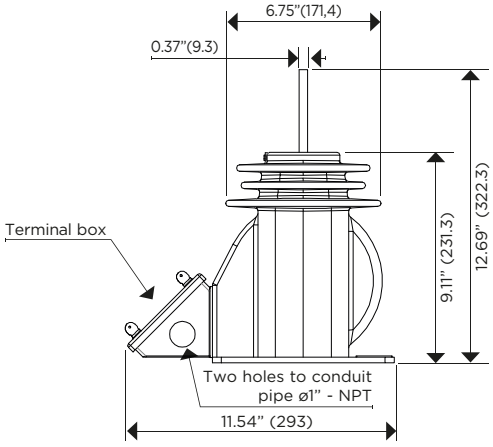
The transformer is maintenance free. The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copperplate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and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

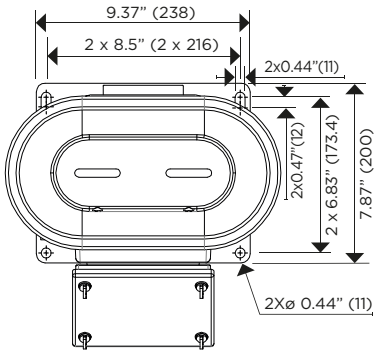
Partial Discharge measurements exceed the IEEE C57.13 2016 requirements.

Mechanical characteristics

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



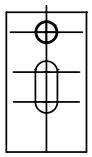




Drawing number: 4287594

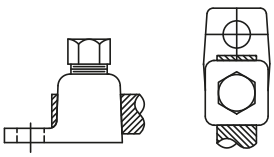
CONNECTIONS

PRIMARY TERMINAL



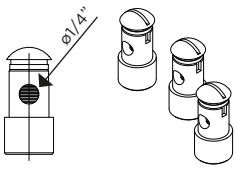
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



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

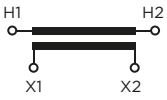
SECONDARY TERMINAL



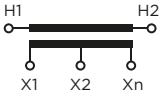
Type: Quick Connector
Material: Brass

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: .....

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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.

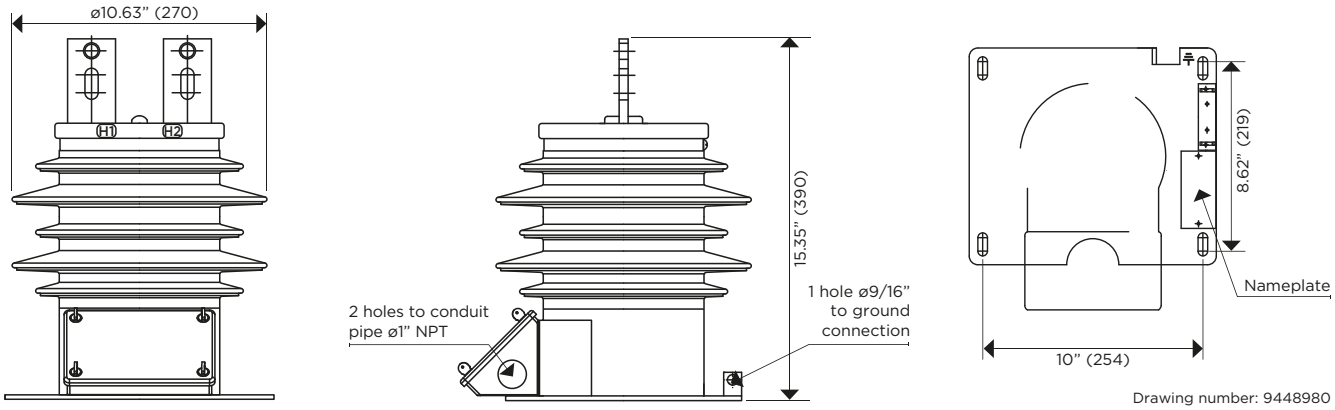
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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.

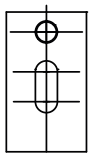
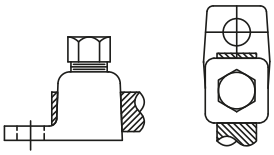
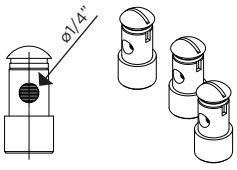
Mechanical characteristics

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



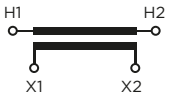
Drawing number: 9448980

CONNECTIONS

PRIMARY TERMINAL	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



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.

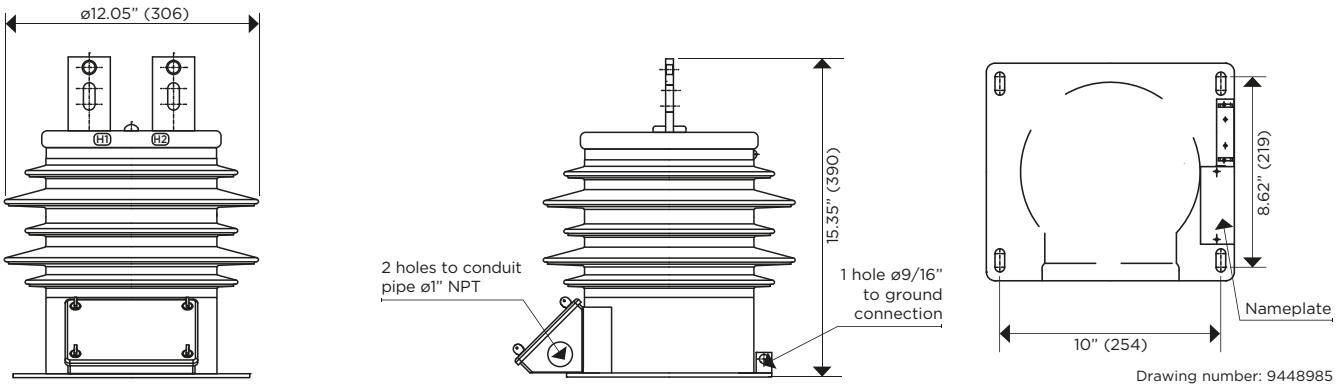
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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

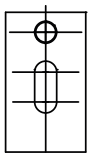
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	68.3	16.5	8



Drawing number: 9448985

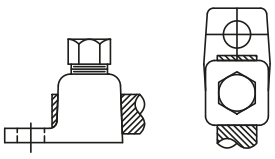
CONNECTIONS

PRIMARY TERMINAL



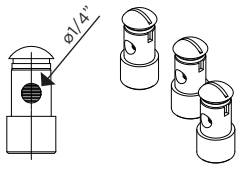
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



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

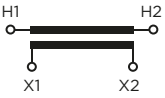
SECONDARY TERMINAL



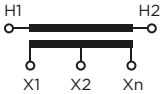
Type: Quick Connector
Material: Brass

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:

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.

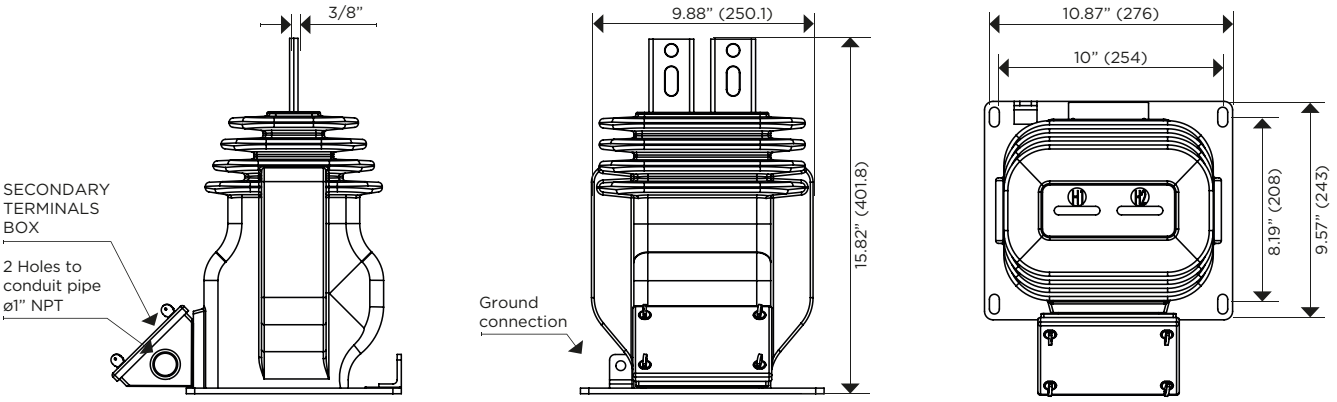
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

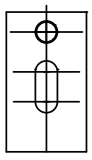
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	66	20.6	8.5



Drawing number: 4288894

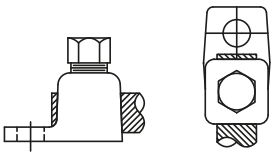
CONNECTIONS

PRIMARY TERMINAL



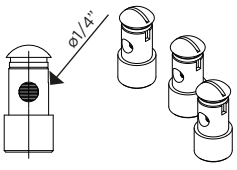
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



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

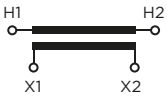
SECONDARY TERMINAL



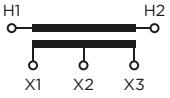
Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

CRFR-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})
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.

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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.

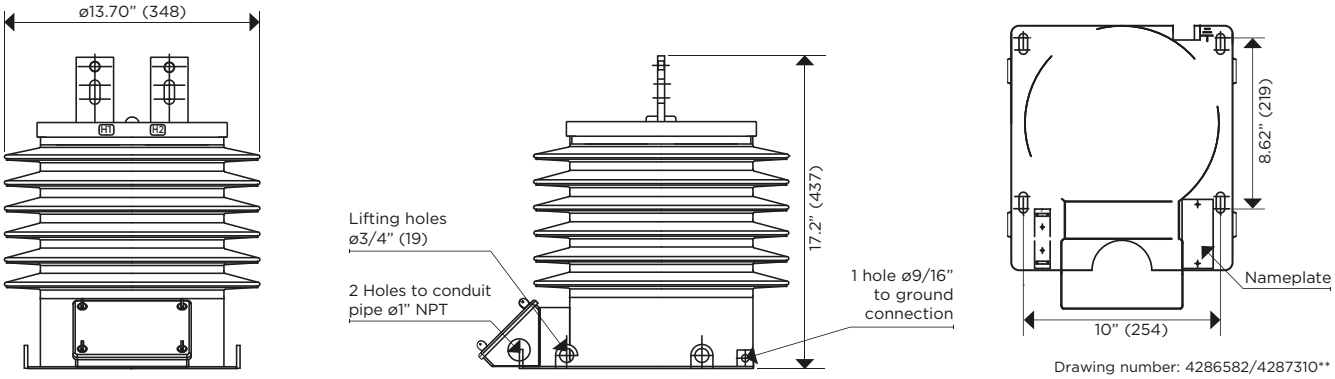
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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

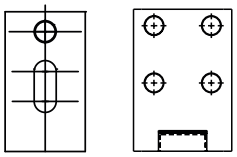
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	112.4	27.55	12



Drawing number: 4286582/4287310**

CONNECTIONS

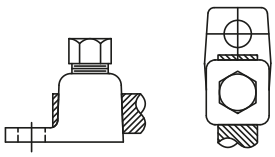
PRIMARY TERMINAL



Type: NEMA-2
Material: Copper

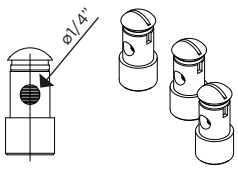
Type: NEMA-4
Material: Copper
**

GROUND CONNECTOR



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

SECONDARY TERMINAL

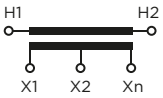


Type: Quick Connector
Material: Brass

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: .....

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CPE-15

15 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

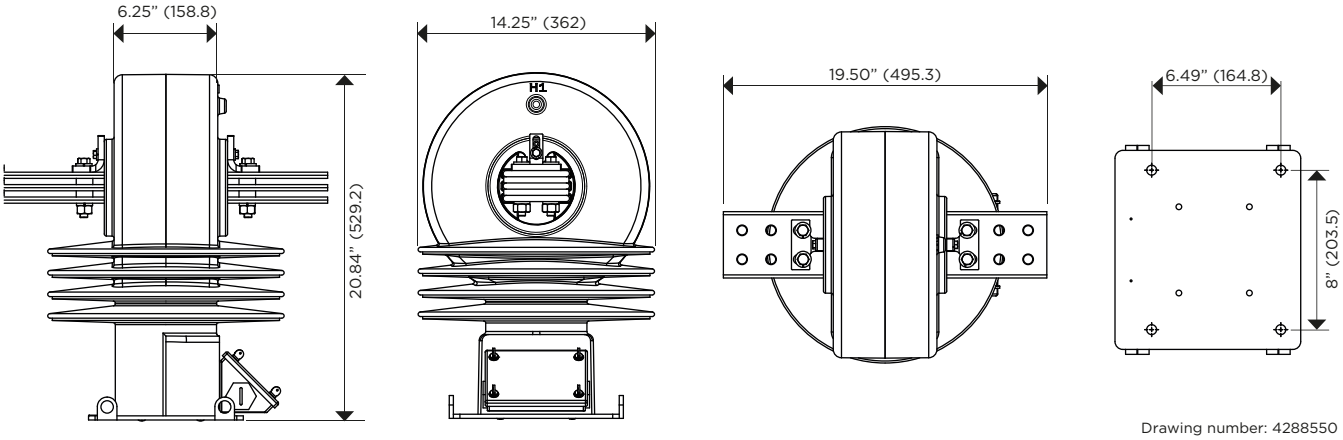
ARTECHE CPE series are dry type outdoor service window type current transformers.

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.

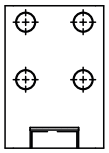
Mechanical characteristics				
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	178.5	35.43	8.39



Drawing number: 4288550

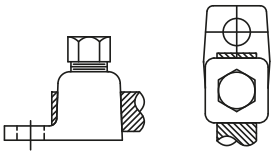
CONNECTIONS

PRIMARY TERMINAL



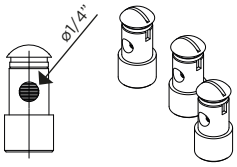
Type: NEMA-4
Material: Copper

GROUND CONNECTOR



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

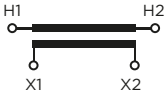
SECONDARY TERMINAL



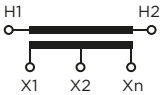
Type: Quick Connector
Material: Brass

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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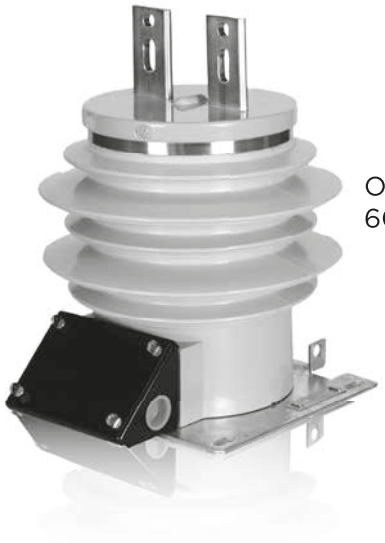
CRE-24

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.

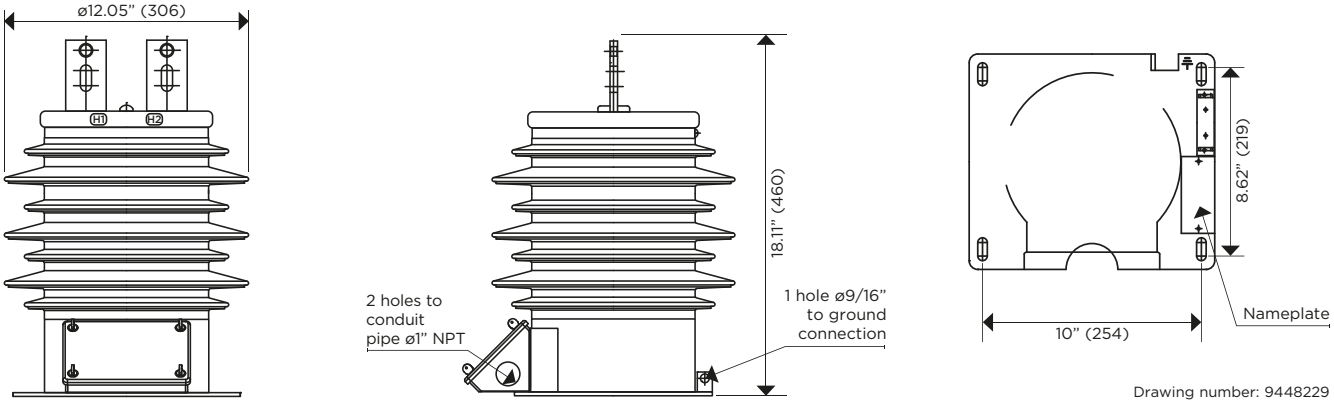
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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.

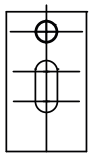
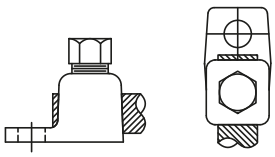
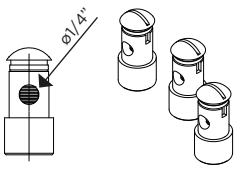
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

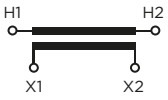
Mechanical characteristics

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.

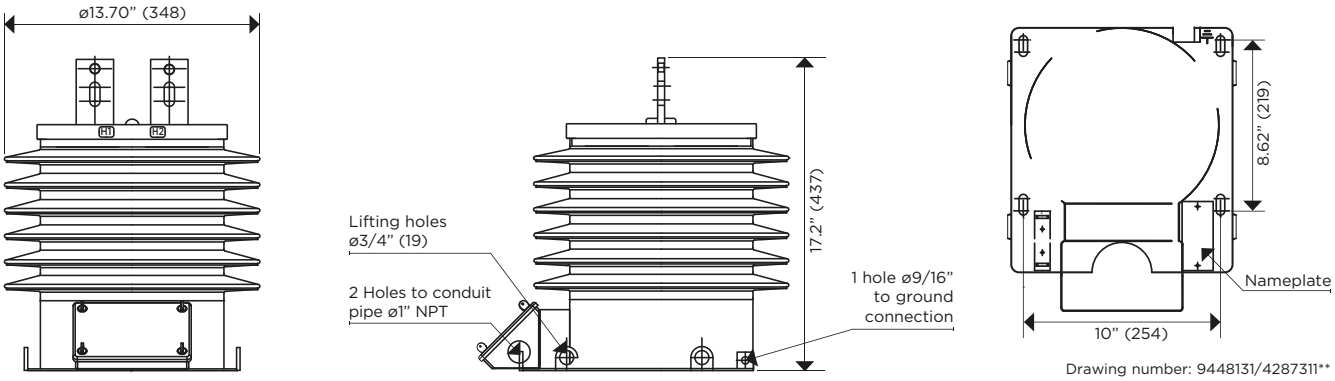
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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.

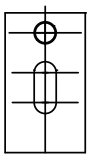
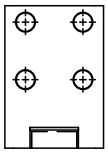
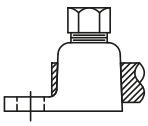
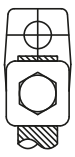
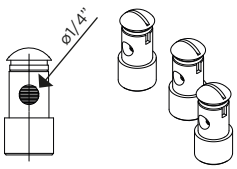
Mechanical characteristics

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



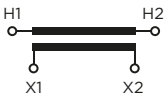
Drawing number: 9448131/4287311**

CONNECTIONS

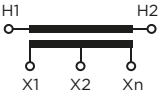
PRIMARY TERMINAL		GROUND CONNECTOR		SECONDARY TERMINAL
				
Type: NEMA-2 Material: Copper	Type: NEMA-4 Material: Copper **	Type: TE-12-250 Material: Copper Range: 4TRE-250MCM		Type: Quick Connector Material: Brass

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

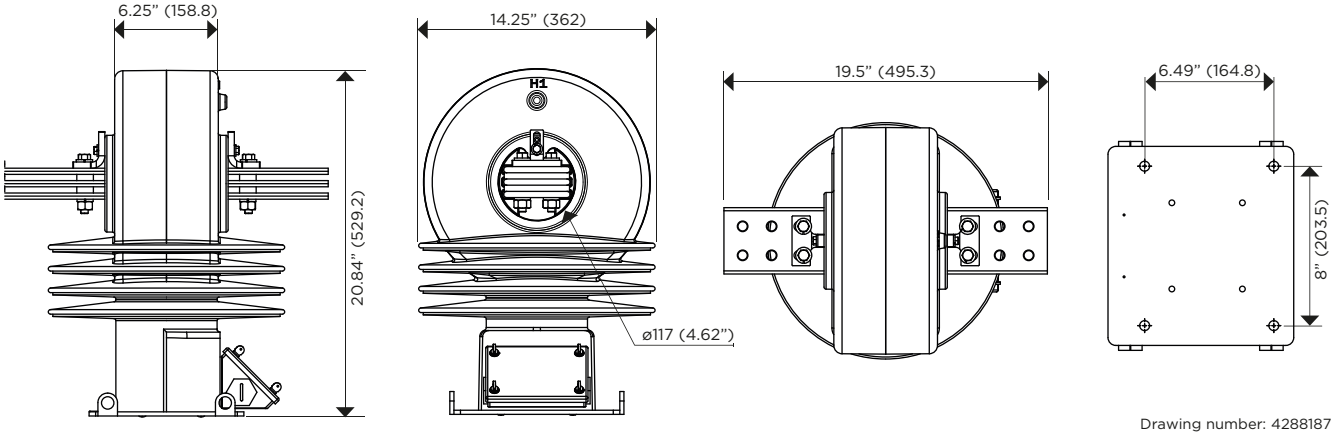
ARTECHE CPE series are dry type outdoor service window type current transformers.

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.

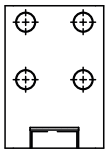
Mechanical characteristics				
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	178.5	35.43	8.93



Drawing number: 4288187

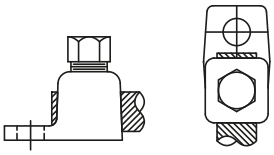
CONNECTIONS

PRIMARY TERMINAL



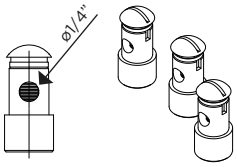
Type: NEMA-4
Material: Copper

GROUND CONNECTOR



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

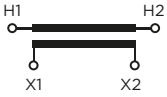
SECONDARY TERMINAL



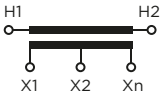
Type: Quick Connector
Material: Brass

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.

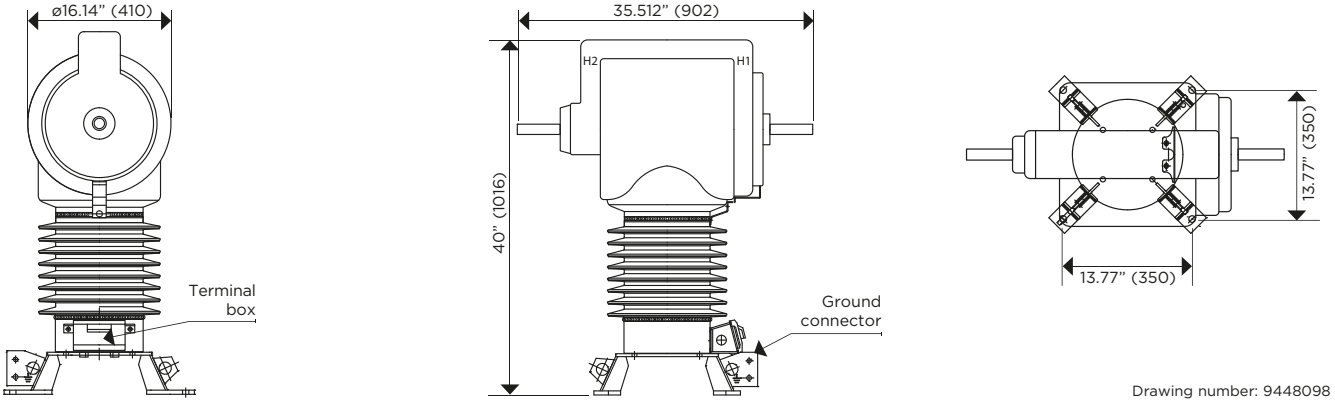
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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

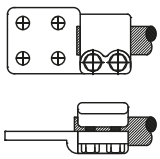
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	550	37.6	11



Drawing number: 9448098

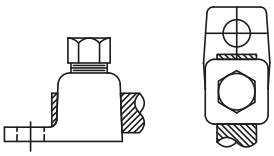
CONNECTIONS

PRIMARY TERMINAL



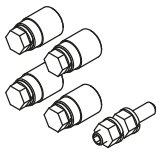
Type: PM30MC0-1-4N-E
Material: Aluminum

GROUND CONNECTOR



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

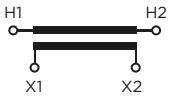
SECONDARY TERMINAL



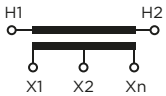
Type: Hex screw
Material: Steel

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.

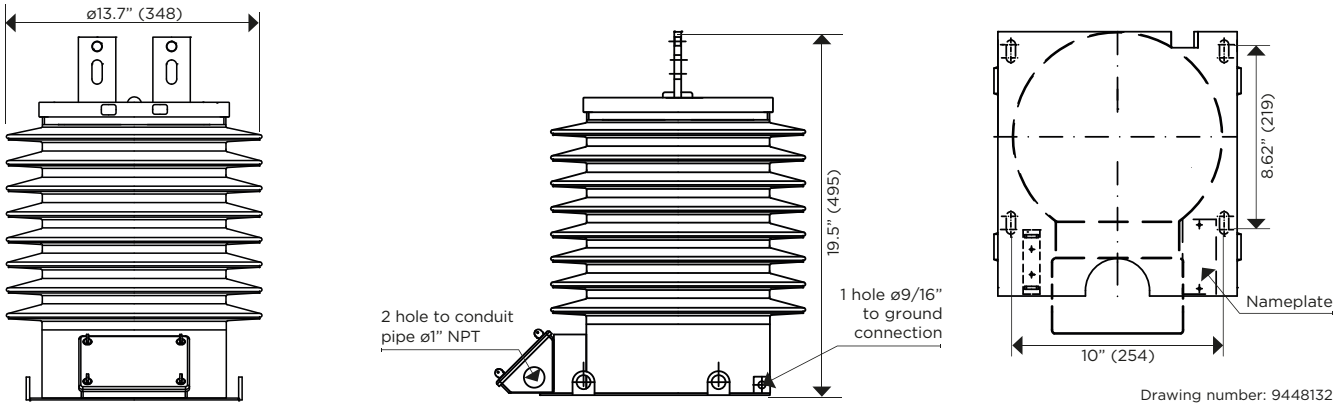
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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

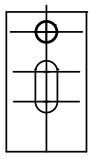
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	134.4	36.2	15



Drawing number: 9448132

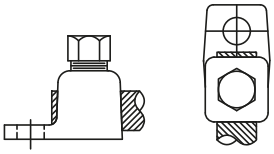
CONNECTIONS

PRIMARY TERMINAL



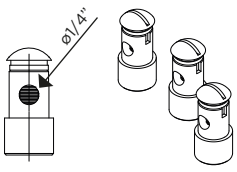
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



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

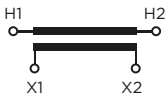
SECONDARY TERMINAL



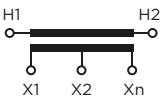
Type: Quick Connector
Material: Brass

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.

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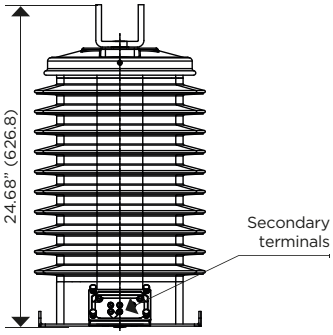
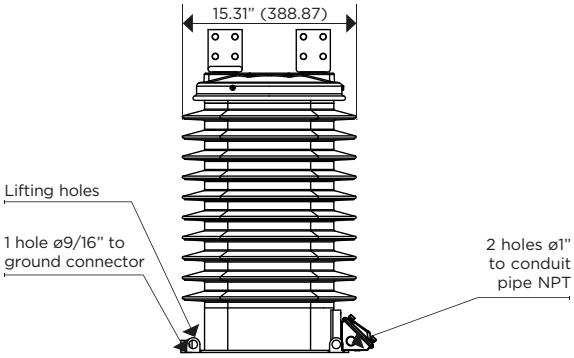
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

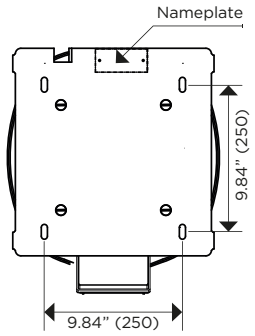
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



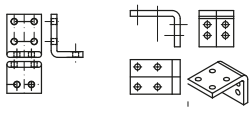




Drawing number: 4286121

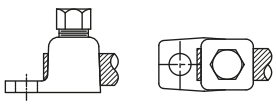
CONNECTIONS

PRIMARY TERMINAL



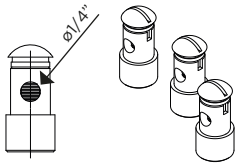
Type: NEMA-4
Material: Copper

GROUND CONNECTOR



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

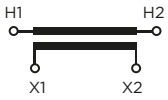
SECONDARY TERMINAL



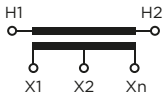
Type: Quick Connector
Material: Brass

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.

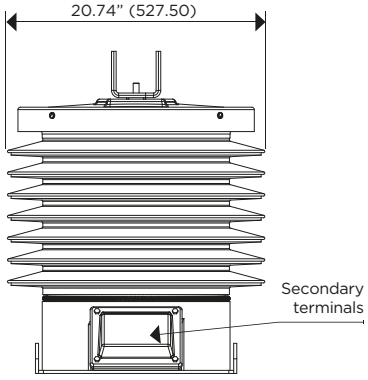
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

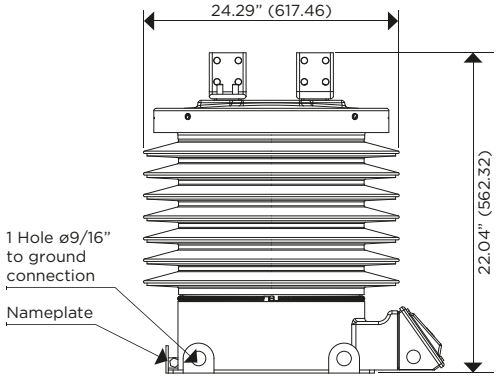
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

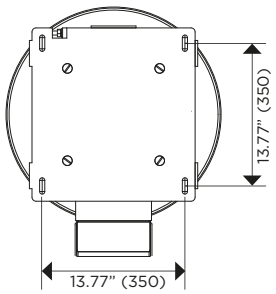
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



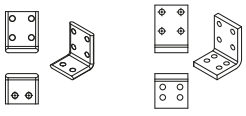




Drawing number: 4286124

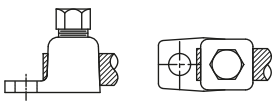
CONNECTIONS

PRIMARY TERMINAL



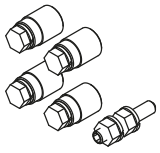
Type: NEMA-4
Material: Copper

GROUND CONNECTOR



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

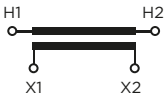
SECONDARY TERMINAL



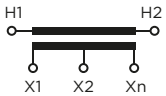
Type: Hex screw
Material: Steel

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.

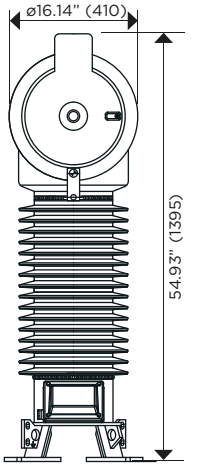
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

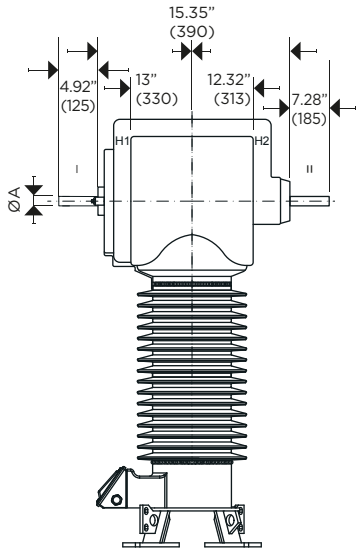
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

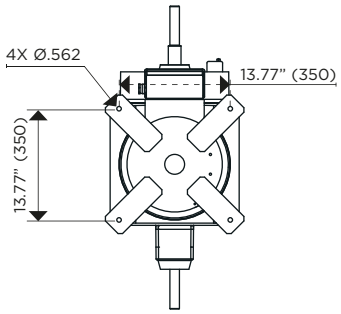
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



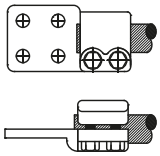




Drawing number: 9448137

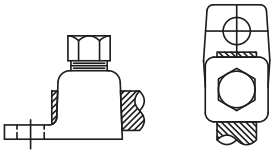
CONNECTIONS

PRIMARY TERMINAL



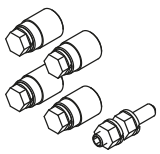
Type: PM30MC0-1-4N-E
Material: Aluminum

GROUND CONNECTOR



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

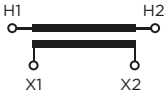
SECONDARY TERMINAL



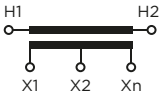
Type: Hex screw
Material: Steel

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.

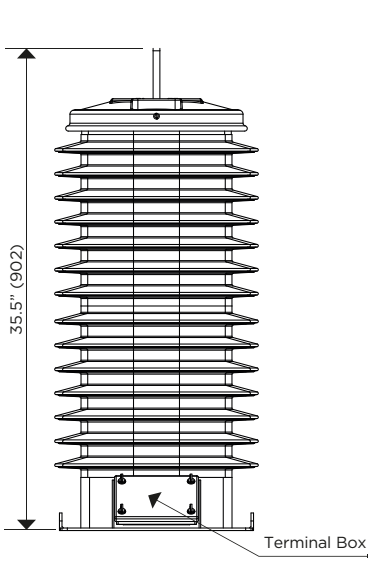
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

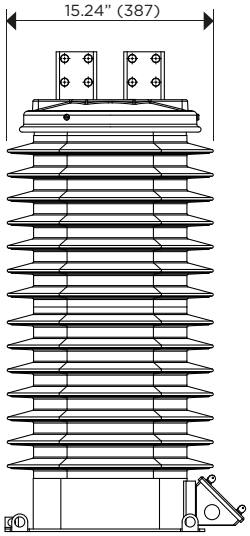
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

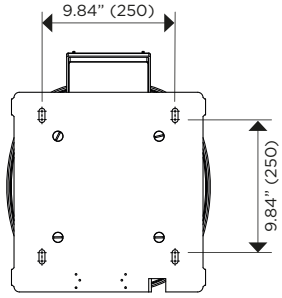
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



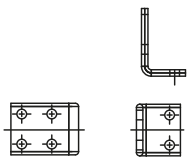




Drawing number: 4286122

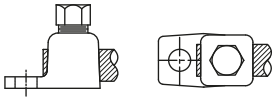
CONNECTIONS

PRIMARY TERMINAL



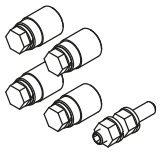
Type: NEMA-4
Material: Copper

GROUND CONNECTOR



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

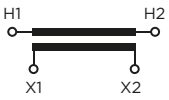
SECONDARY TERMINAL



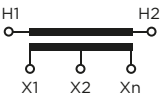
Type: Hex screw
Material: Steel

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.

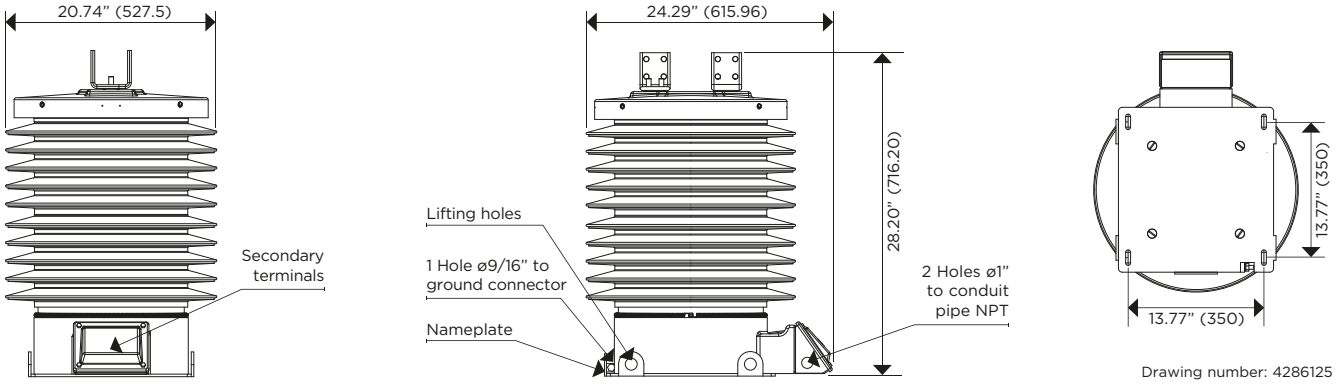
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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

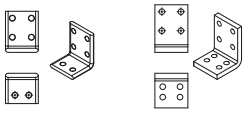
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	458	63.62	19.7



Drawing number: 4286125

CONNECTIONS

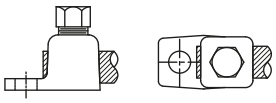
PRIMARY TERMINAL



1500 A 2000 A

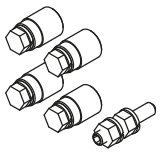
Type: NEMA-4
Material: Copper

GROUND CONNECTOR



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

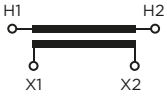
SECONDARY TERMINAL



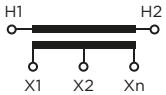
Type: Hex screw
Material: Steel

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: .....

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.

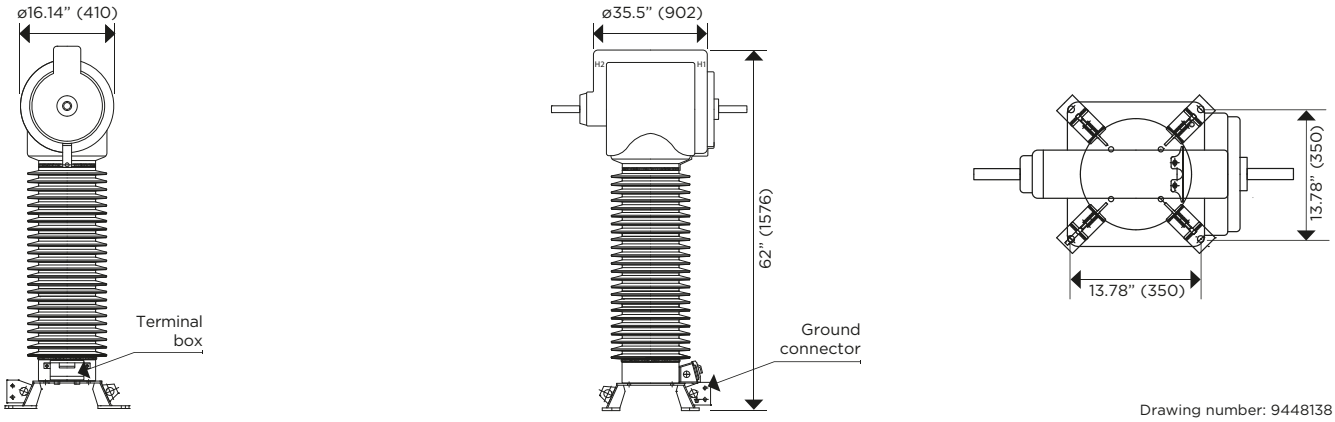
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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

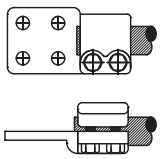
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	771	109.4	33



Drawing number: 9448138

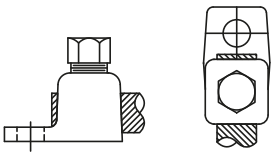
CONNECTIONS

PRIMARY TERMINAL



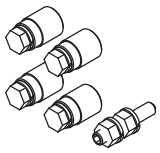
Type: PM30MC0-1-4N-E
Material: Aluminum

GROUND CONNECTOR



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

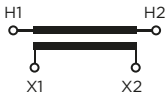
SECONDARY TERMINAL



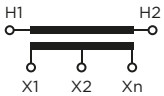
Type: Hex screw
Material: Steel

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.

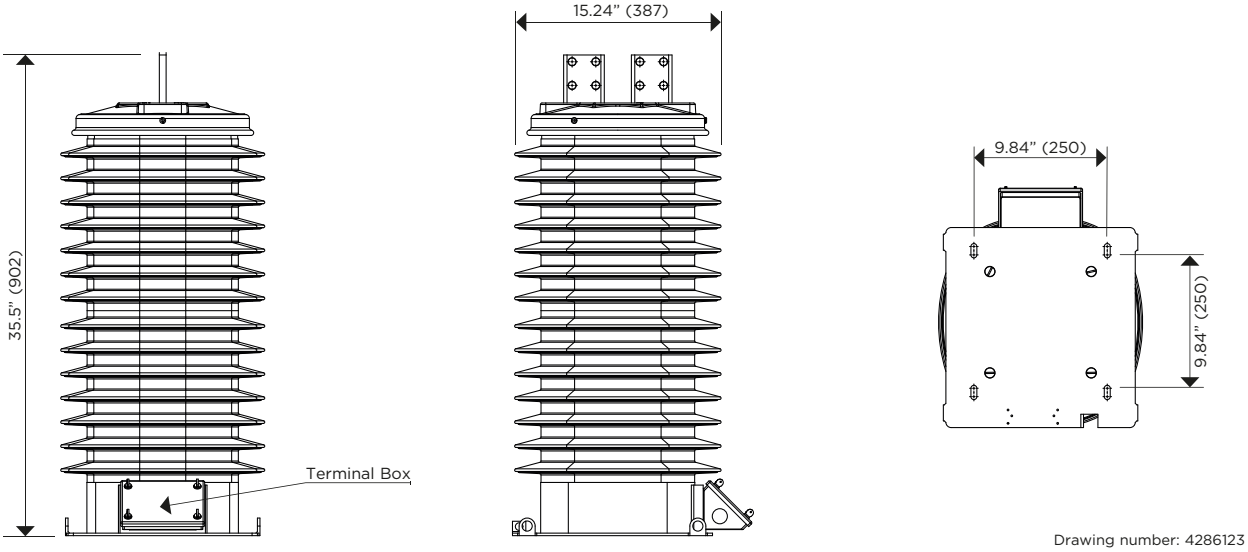
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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

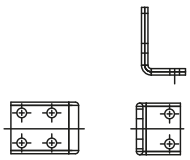
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	298	74.8	26



Drawing number: 4286123

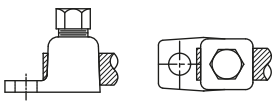
CONNECTIONS

PRIMARY TERMINAL



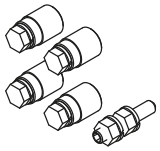
Type: NEMA-4
Material: Copper

GROUND CONNECTOR



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

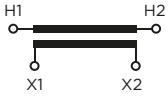
SECONDARY TERMINAL



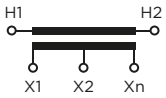
Type: Hex screw
Material: Steel

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: .....

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.

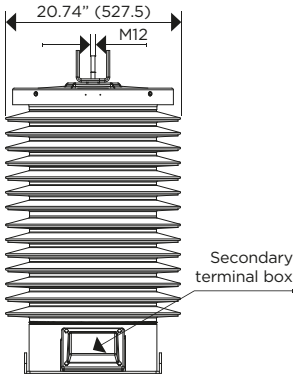
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

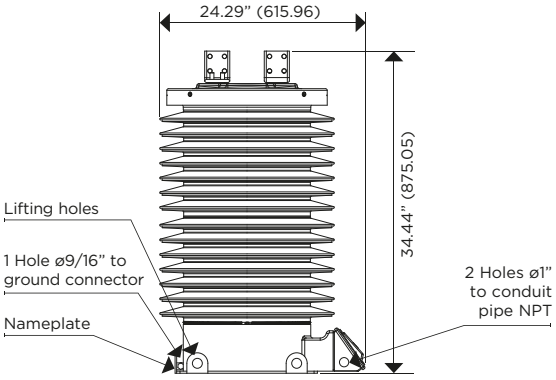
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

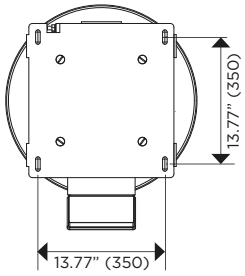
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



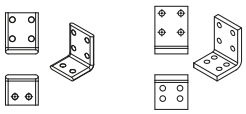




Drawing number: 4286126

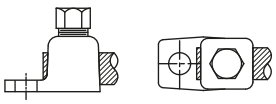
CONNECTIONS

PRIMARY TERMINAL



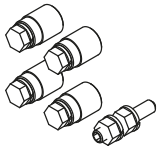
Type: NEMA-4
Material: Copper

GROUND CONNECTOR



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

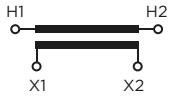
SECONDARY TERMINAL



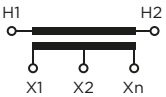
Type: Hex screw
Material: Steel

MARKING (Single Primary Ratio)

ONE SECONDARY



ONE SECONDARY with tap



Approximate dimensions in inches (mm).

CRK-72

69 kV CURRENT TRANSFORMER

Electrical characteristics

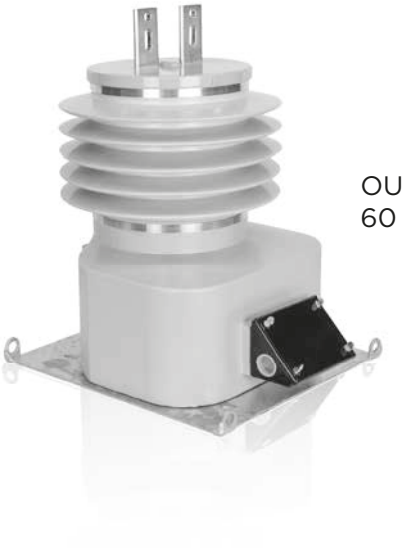
Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary) (A)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA_{peak})	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										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.

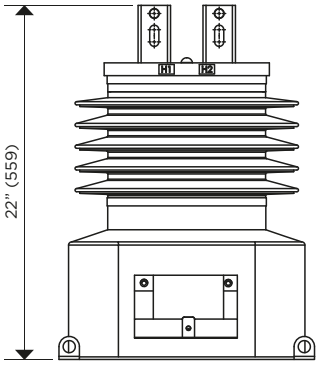
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

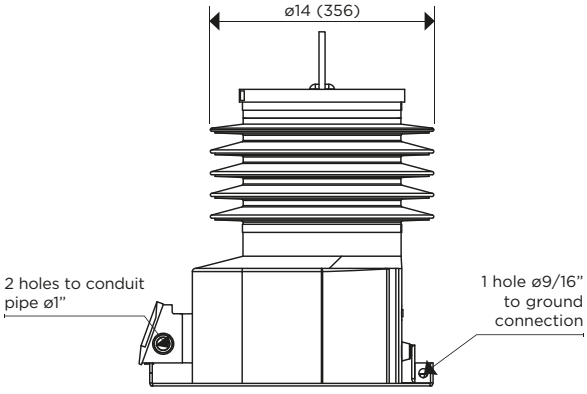
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

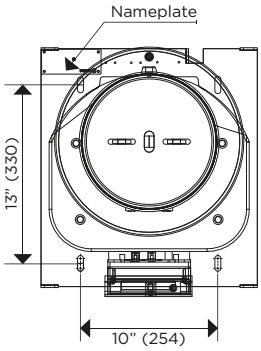
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



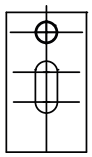




Drawing number: 4286236

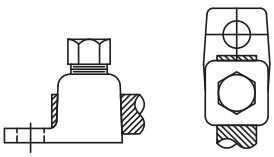
CONNECTIONS

PRIMARY TERMINAL



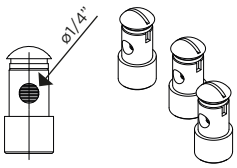
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



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

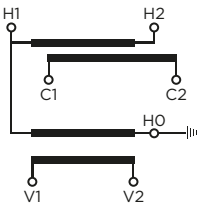
SECONDARY TERMINAL



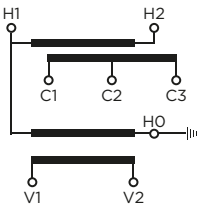
Type: Quick Connector
Material: Brass

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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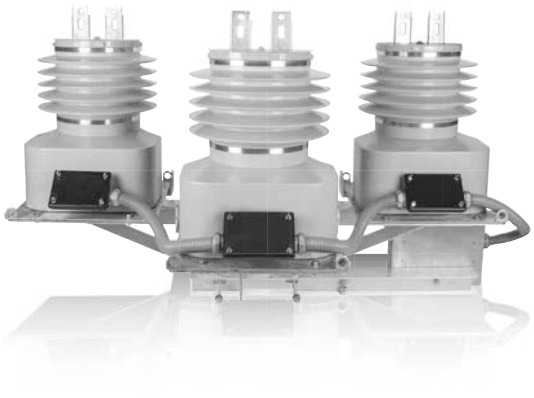
MK-15

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.

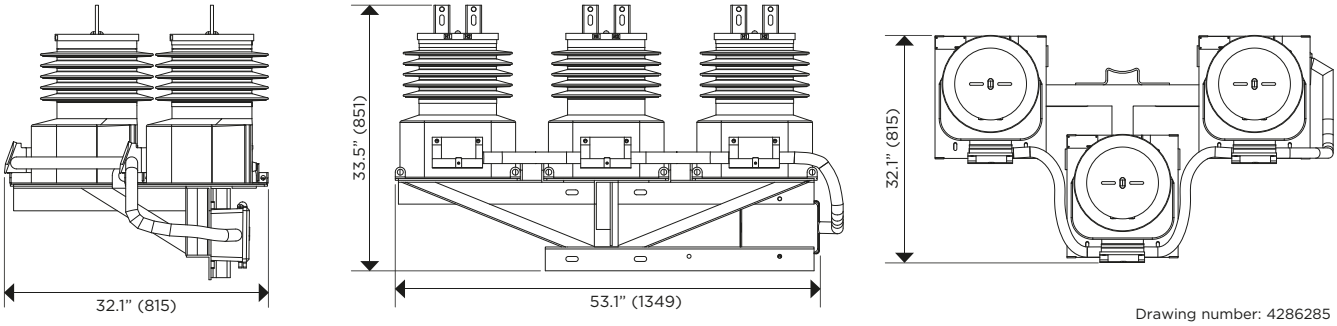
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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

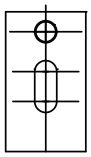
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	692	23.7	13



Drawing number: 4286285

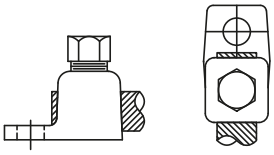
CONNECTIONS

PRIMARY TERMINAL



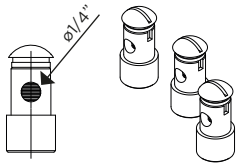
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



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

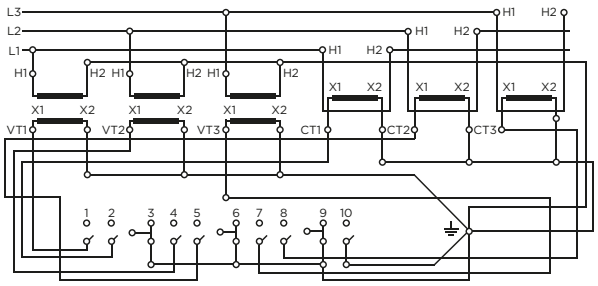
SECONDARY TERMINAL



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

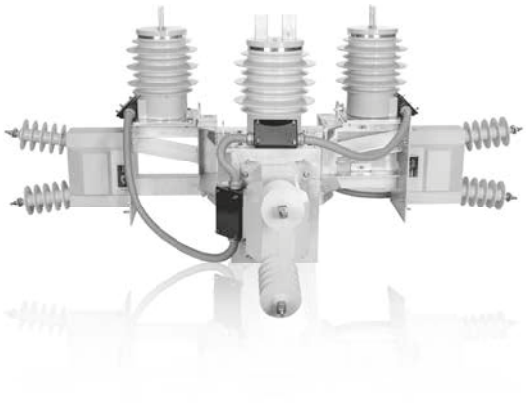
NOTE: Line-to-Ground Connection Only.

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.

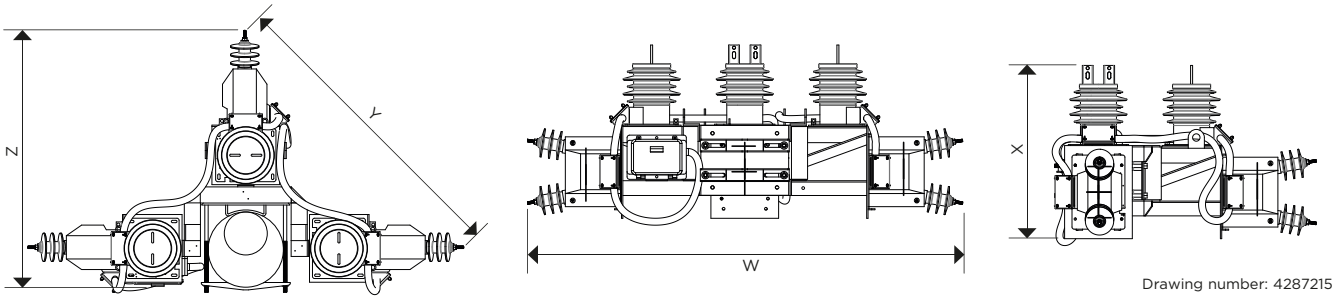
The rack is made of lightweight aluminium designed to mount on poles in an upright position. It includes two galvanized steel mounting bolts for attaching the metering unit to the pole. with pole diameters available from 8" to 14". Optional galvanized steel structures and/or other pole diameters are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

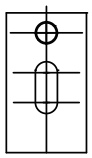
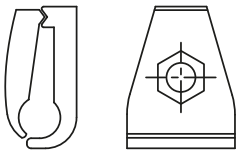
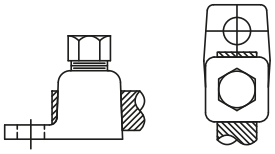
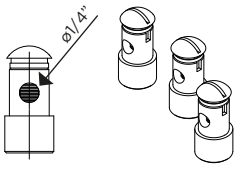
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage. achieving greater accuracy and higher capacity to withstand mechanical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

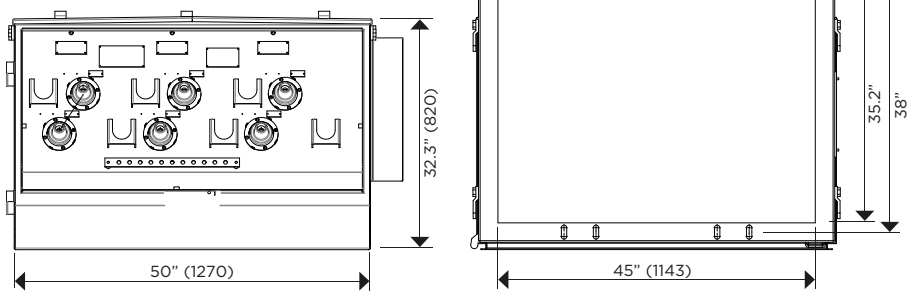
The entire surface of the transformer is coated with a conductive layer that is intended to be solidly grounded when energized. This allows for compact mounting inside switchgear or enclosures.

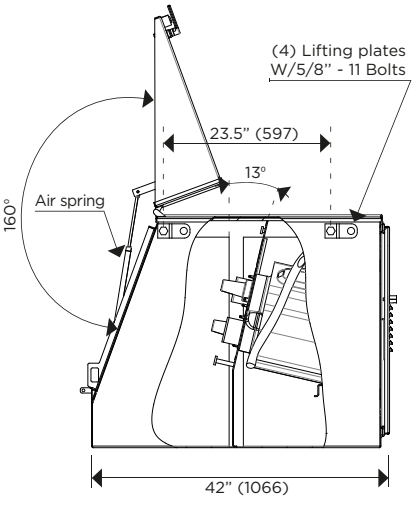
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

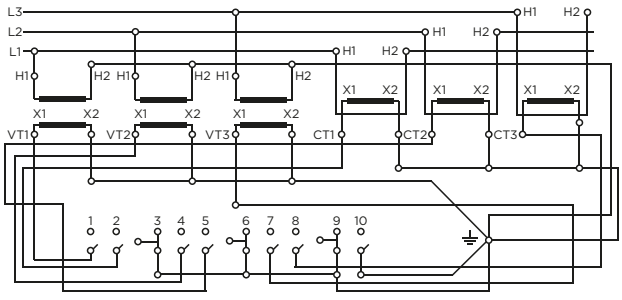
Mechanical characteristics		
Material	Colors	Weight (lbs.)
Stainless steel	Munsell Green	992





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

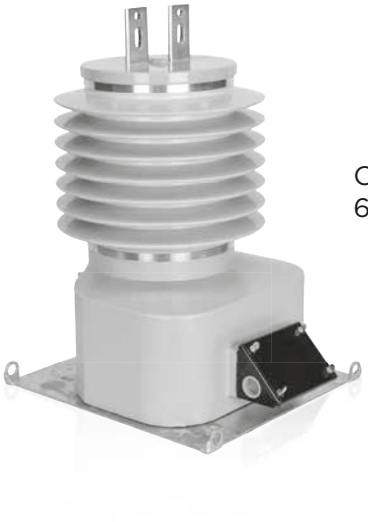
VT Ratio	Primary (V)	Secondary (V)	Thermal Burden (VA)	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30s (Un)
60:1	7200/12470GY	120	750	1.1	1.25

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

Notes:

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.

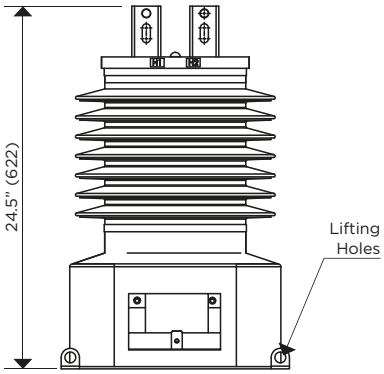
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

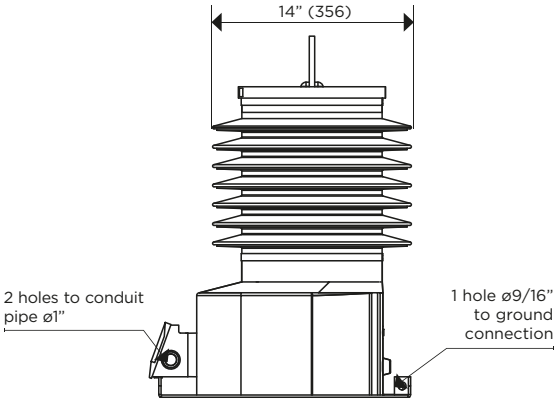
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

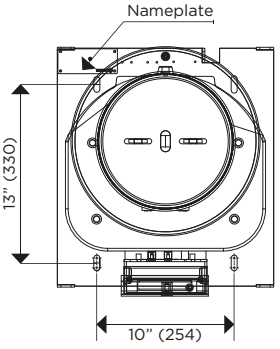
Partial Discharge measurements exceed IEEE C57.13 2016 requirements

Mechanical characteristics

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



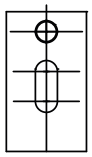




Drawing number: 4286284

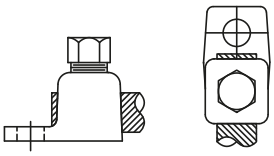
CONNECTIONS

PRIMARY TERMINAL



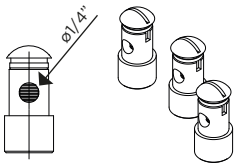
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



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

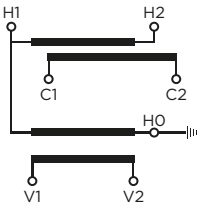
SECONDARY TERMINAL



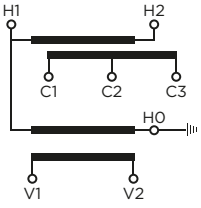
Type: Quick Connector
Material: Brass

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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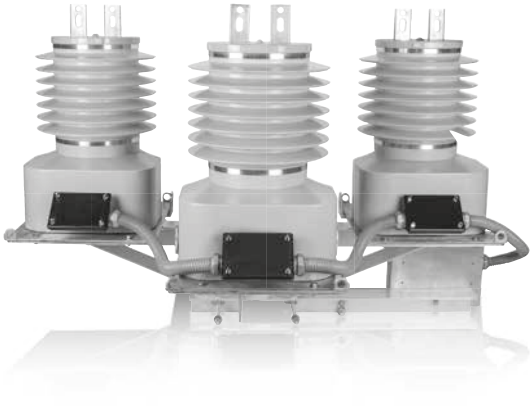
MK-25

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.

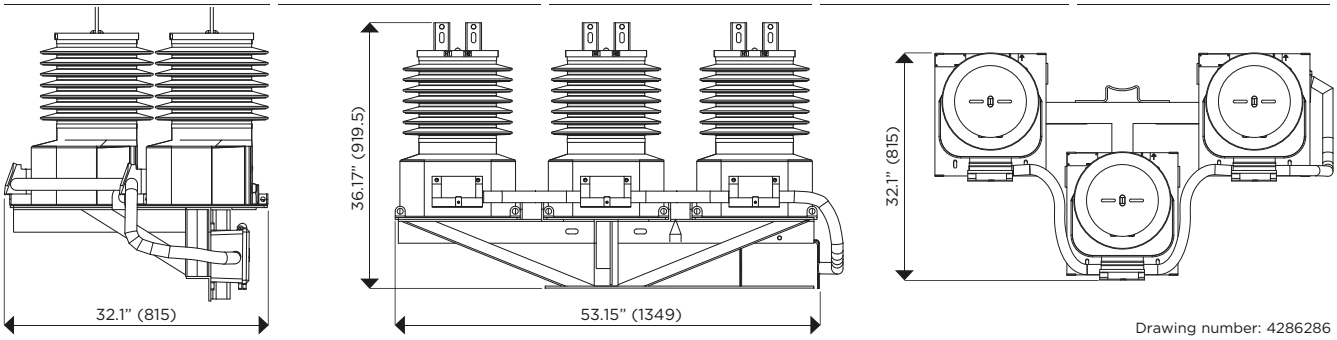
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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

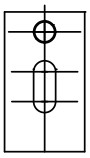
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	755	32.6	16



Drawing number: 4286286

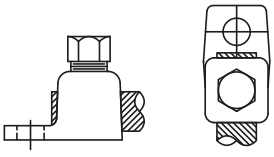
CONNECTIONS

PRIMARY TERMINAL



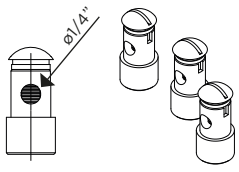
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



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

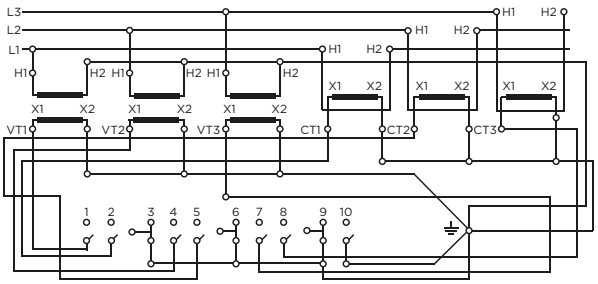
SECONDARY TERMINAL



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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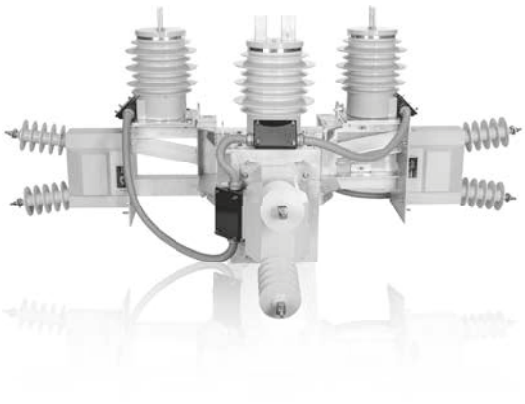
ME-025

25 kV METERING UNIT



OUTDOOR
60 Hertz

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

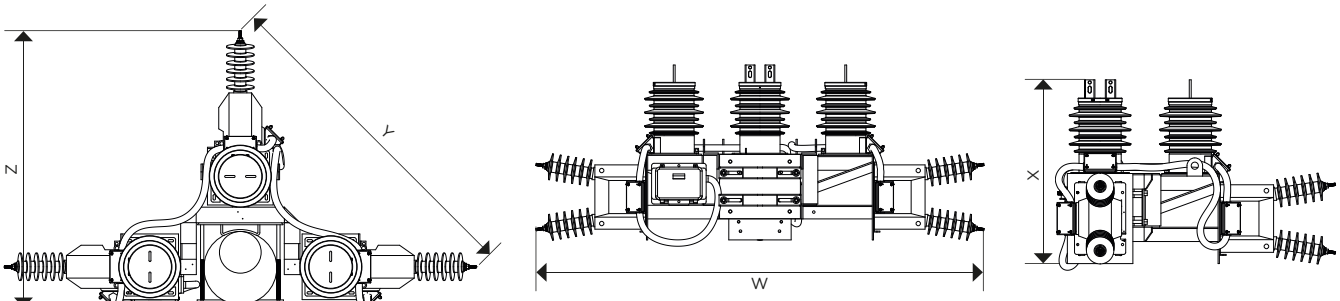
The rack is made of lightweight aluminium designed to mount on poles in an upright position. It includes two galvanized steel mounting bolts for attaching the metering unit to the pole. with pole diameters available from 8" to 14". Optional galvanized steel structures and/or other pole diameters are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

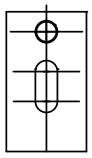
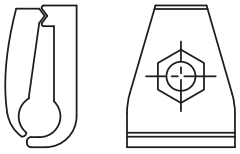
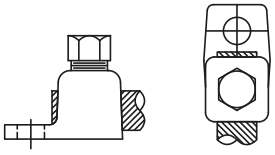
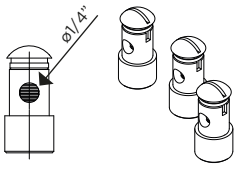
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage. achieving greater accuracy and higher capacity to withstand mechanical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

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



Drawing number: 4287228

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-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.

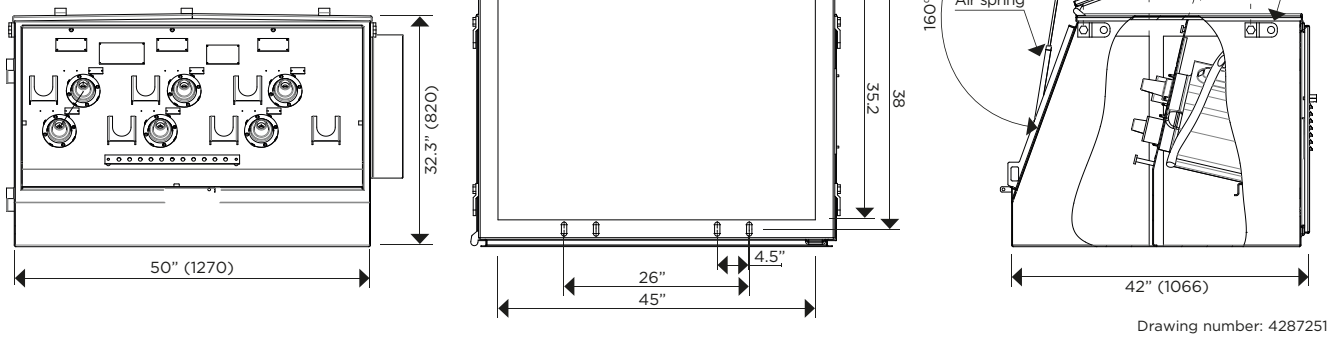
The entire surface of the transformer is coated with a conductive layer that is intended to be solidly grounded when energized. This allows for compact mounting inside switchgear or enclosures.

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.

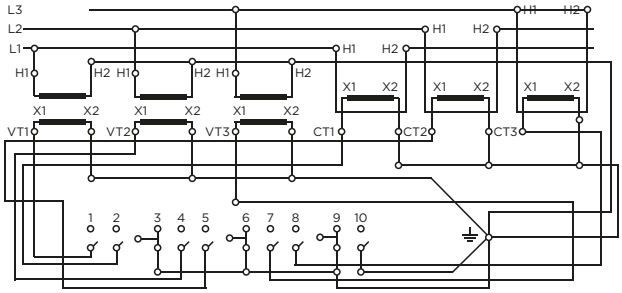
The primary bushing well connections are IEEE 386 compliant, rated 200 A loadbreak or 600 A non load-break. The secondary terminals are pre- wired to a 10 position test switch and 9S meter socket in standard red/black colors.

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.

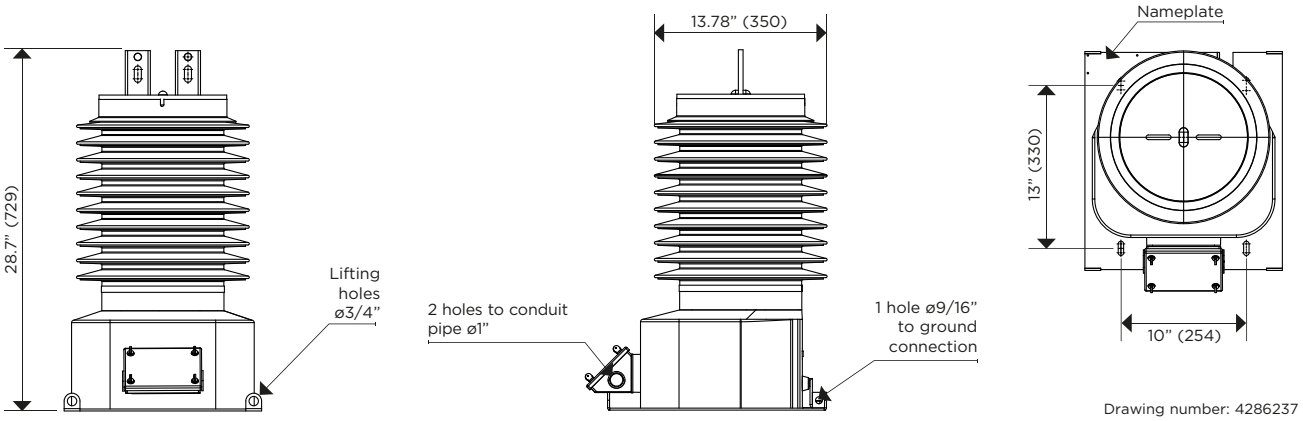
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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

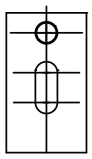
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	264	46	21



Drawing number: 4286237

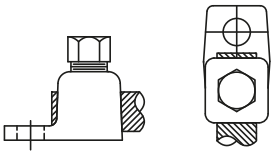
CONNECTIONS

PRIMARY TERMINAL



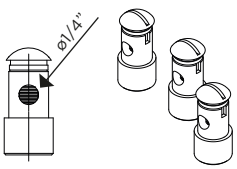
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



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

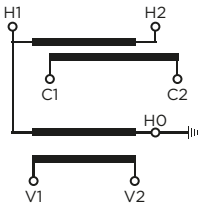
SECONDARY TERMINAL



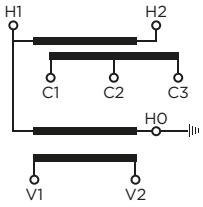
Type: Quick Connector
Material: Brass

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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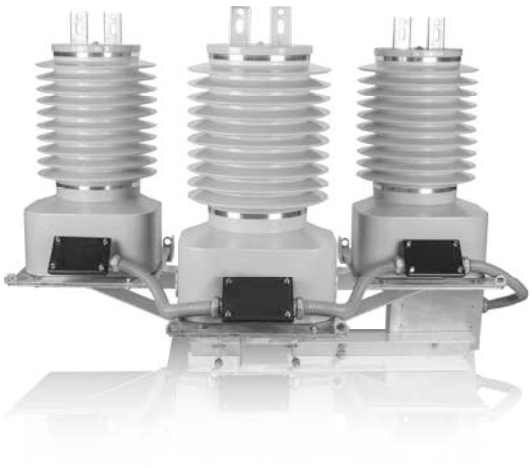
MK-34

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.

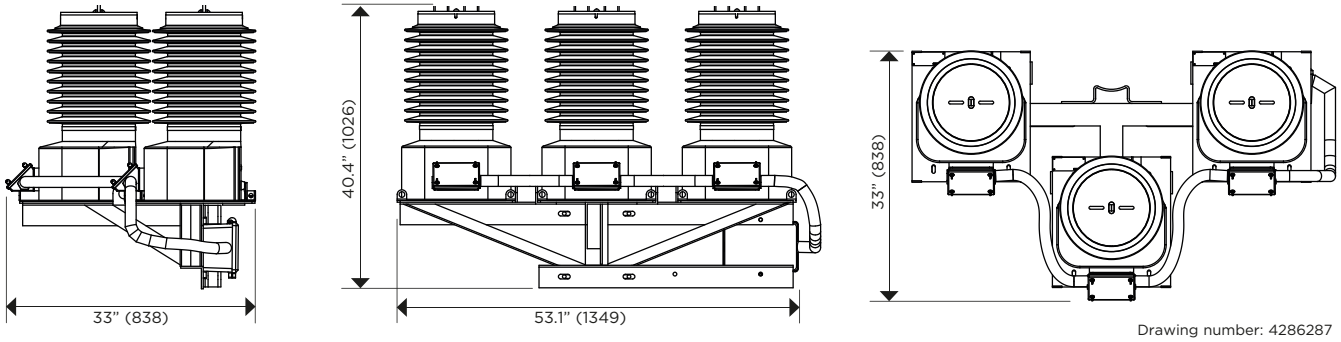
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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

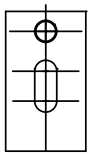
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	857	46	21



Drawing number: 4286287

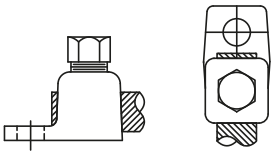
CONNECTIONS

PRIMARY TERMINAL



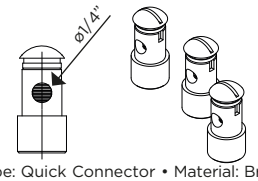
Type: NEMA-2
Material: Copper

GROUND CONNECTOR



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

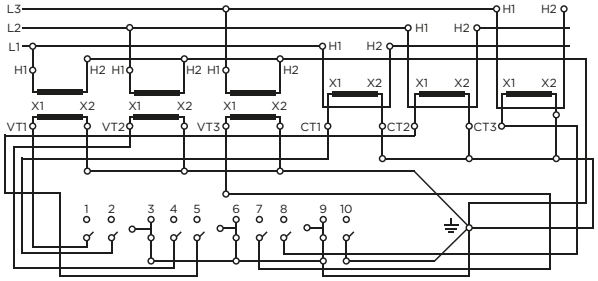
SECONDARY TERMINAL



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

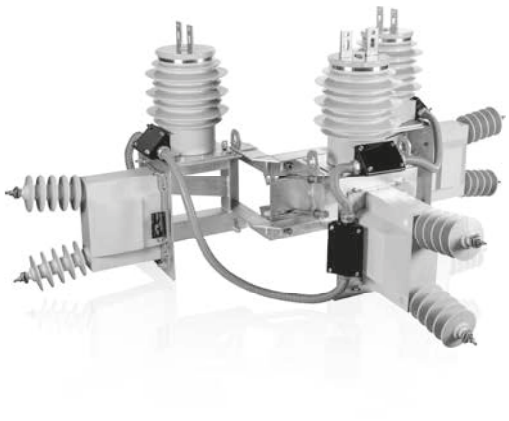
NOTE: Line-to-Ground Connection Only.

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.

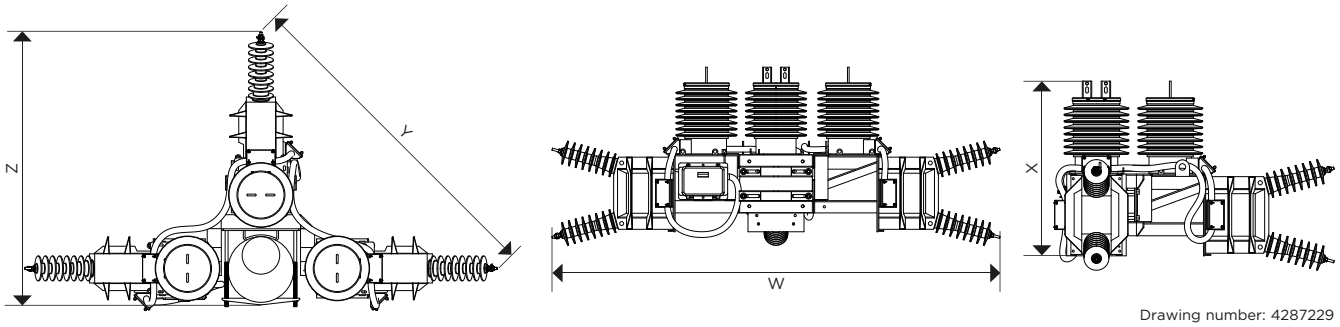
The rack is made of lightweight aluminium designed to mount on poles in an upright position. It includes two galvanized steel mounting bolts for attaching the metering unit to the pole. with pole diameters available from 8" to 14". Optional galvanized steel structures and/or other pole diameters are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

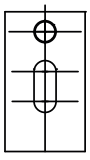
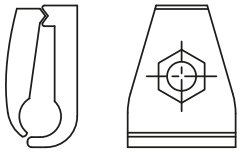
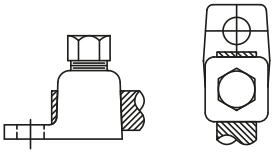
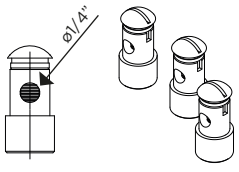
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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