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.

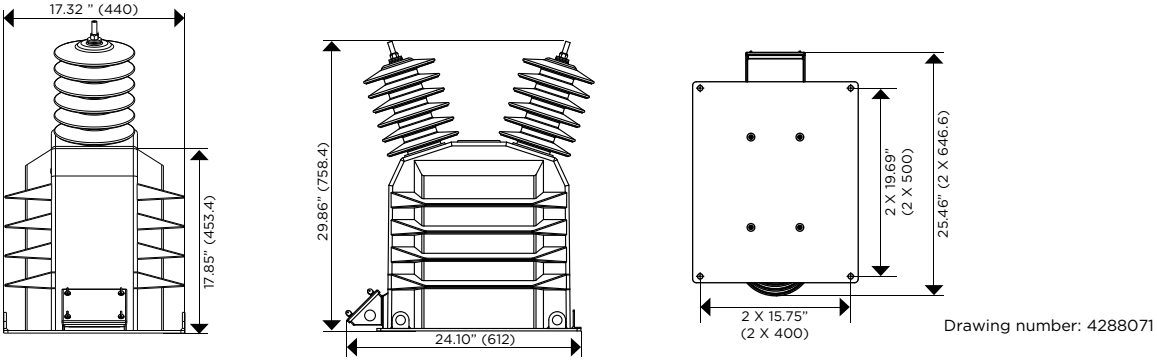
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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

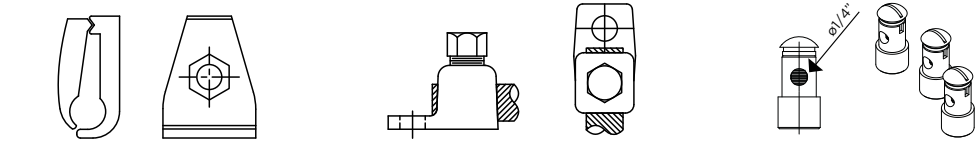
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray*	284	47.5	25.2



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
H1 H2 X1 X2	H1 H2 X1 X2 Y1 Y2	H1 H2 X1 X2 X3	H1 H2 X1 X2 X3 Y1 Y2 Y3

Approximate dimensions in inches (mm).
* Brown color available upon request.

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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 VA	34.5	200	70	2.5
757892175	757890001-H	175:1-1	20125/34857Y	115 & 115	0.3 W,X,M,Y,Z	1.1	1.25	1250 & 1250 VA	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 VA	34.5	200	70	2.5
757892240	757890003-H	240:1-1	27600/27600Y	115 & 115	0.3 W,X,M,Y,Z	1.1	1.25	1250 & 1250 VA	34.5	200	70	2.5
757892300	757890004-H	300:1-1	34500/34500Y	115 & 115	0.3 W,X,M,Y,Z	1.1	1.25	1250 & 1250 VA	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 VA	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 VA	34.5	200	70	2.5
757896300	757890007-H	175/300:1-1	20125/34857Y	115/67.08 & 115/67.08	0.3 W,X,M,Y,Z	1.1	1.25	1250 & 1250 VA	34.5	200	70	2.5
757893520	757890008-H	175/300 & 300/520:1	20125/34500	115/67.08 & 115/66.36	0.3 W,X,M,Y,Z	1.1	1.25	1000 & 1000 VA	34.5	200	70	2.5

Additional ratings available upon request.

Notes: