

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.

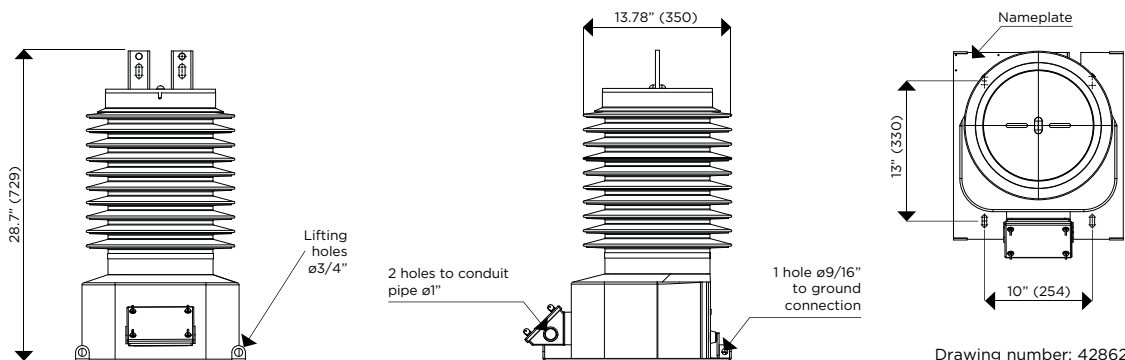
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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.

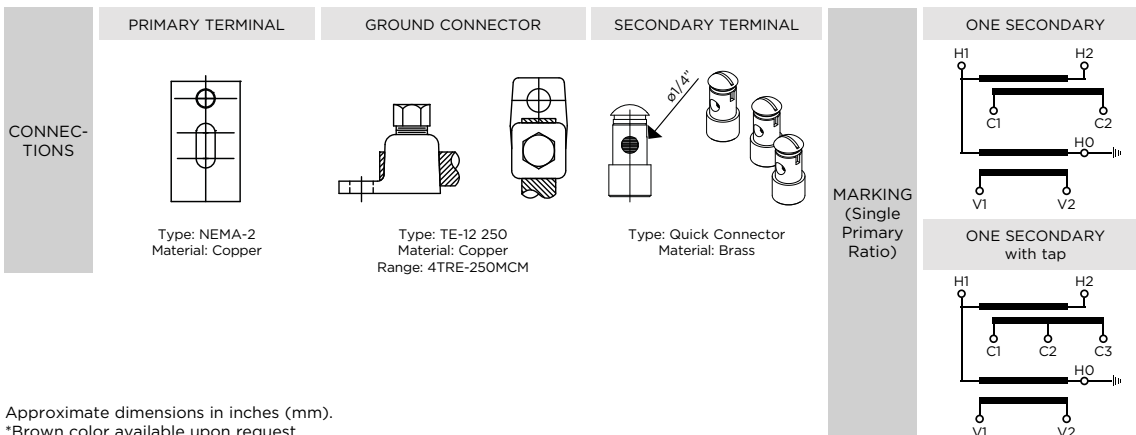
Partial Discharge measurements exceed IEEE C57.13 2008 requirements

Mechanical characteristics

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



Drawing number: 4286237



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

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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

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

Notes:

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