

# CRH-36

## 34.5 kV CURRENT TRANSFORMER



**OUTDOOR  
60 Hertz**

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

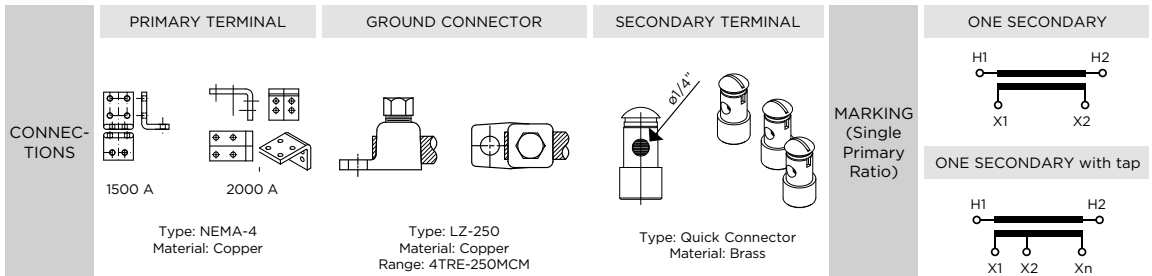
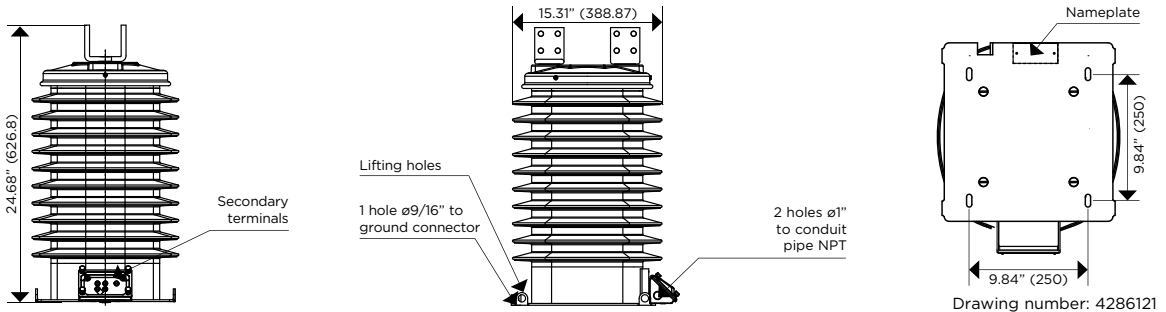
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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

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

**Mechanical characteristics**

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



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

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### 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 <sub>peak</sub> )	IEEE Metering Accuracy	Relay Accuracy	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)	
										Primary & Secondary (kV <sub>rms</sub> )	Secondary Winding (kV <sub>rms</sub> )
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
<b>High Accuracy Extended Range</b> 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.