

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.

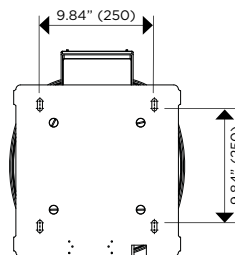
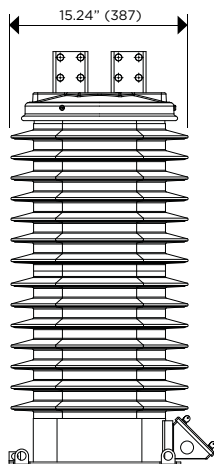
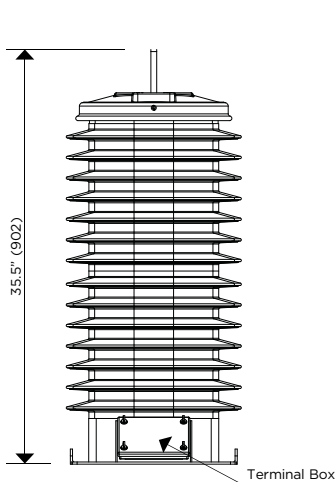
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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.

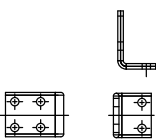
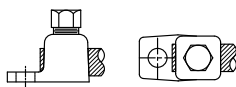
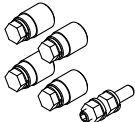
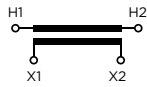
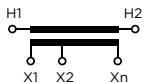
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

Mechanical characteristics

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



Drawing number: 4286122

	PRIMARY TERMINAL	GROUND CONNECTOR	SECONDARY TERMINAL		ONE SECONDARY
CONNECTIONS				MARKING (Single Primary Ratio)	
	Type: NEMA-4 Material: Copper	Type: LZ-250 Material: Copper Range: 4TRE-250MCM	Type: Hex screw Material: Steel		ONE SECONDARY with tap 

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 _{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.

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