

# 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.

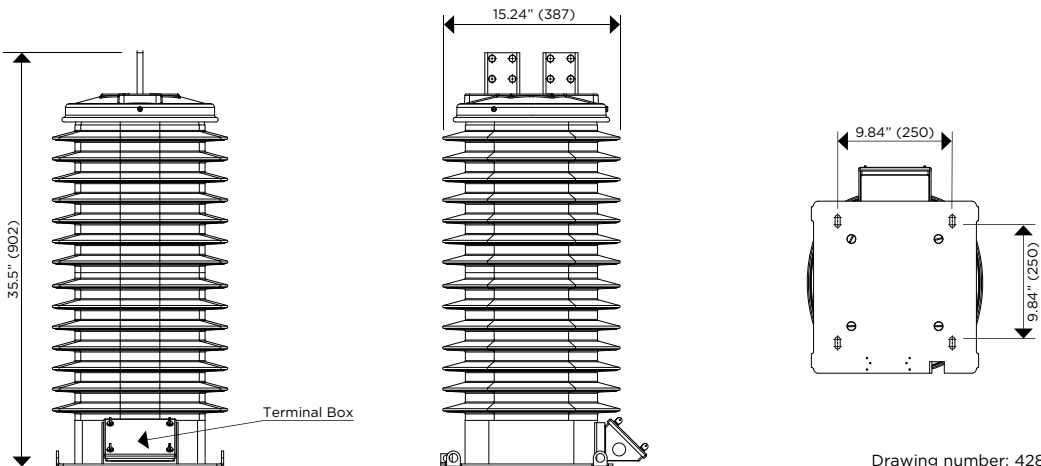
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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	GROUND CONNECTOR	SECONDARY TERMINAL	MARKING (Single Primary Ratio)
	<p>Type: NEMA-4 Material: Copper</p>	<p>Type: LZ-250 Material: Copper Range: 4TRE-250MCM</p>	<p>Type: Hex screw Material: Steel</p>	

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> )
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.

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