CPE-15

15 kV CURRENT TRANSFORMER

OUTDOOR
60 Hertz

ARTECHE CPE 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.

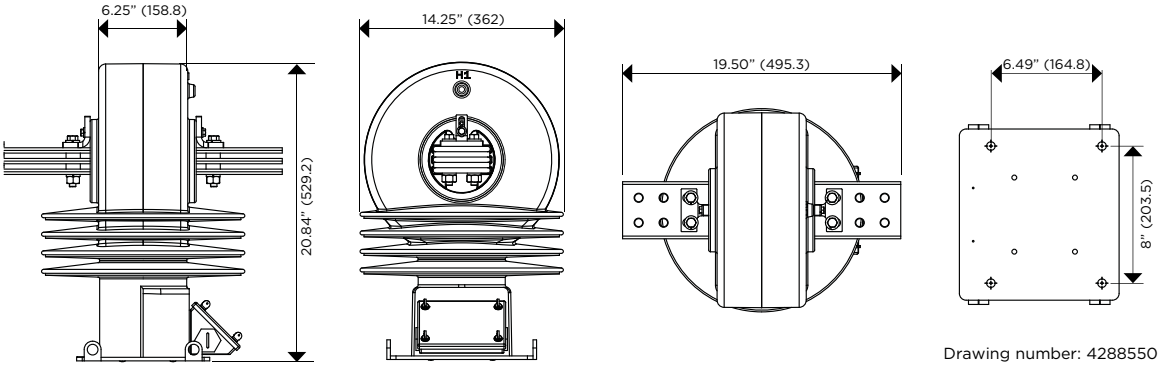
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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

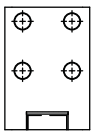
Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray*	178.5	35.43	8.39



Drawing number: 4288550

CONNECTIONS

PRIMARY TERMINAL



Type: NEMA-4
Material: Copper
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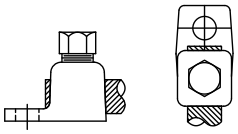
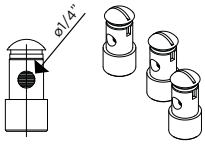
GROUND CONNECTOR



Type: TE-12-250
Material: Copper
Range: 4TRE-250MCM

SECONDARY TERMINAL

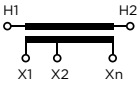


Type: Quick Connector
Material: Brass

MARKING (Single Primary Ratio)

ONE SECONDARY

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})
756520001	756520052-H	200:5	3.0	16	43.2	0.3 B0.2	C50	15	110	34	2.5
756520002	756520053-H	300:5	2.0	24	64.8	0.3B0.5	C100	15	110	34	2.5
756520003	756520054-H	400:5	2.0	32	86.4	0.3B0.9	C100	15	110	34	2.5
756520004	756520055-H	500:5	2.0	40	108	0.3B1.8	C150	15	110	34	2.5
756520005	756520056-H	600:5	2.0	48	129.6	0.3B1.8	C200	15	110	34	2.5
756520006	756520057-H	800:5	2.0	64	172.8	0.3B1.8	C200	15	110	34	2.5
756520007	756520058-H	1000:5	2.0	80	216	0.3B1.8	C250	15	110	34	2.5
756520008	756520059-H	1200:5	2.0	96	259.2	0.3B1.8	C250	15	110	34	2.5
756520009	756520060-H	1500:5	2.0	120	324	0.3B1.8	C300	15	110	34	2.5
756520010	756520061-H	2000:5	2.0	160	432	0.3B1.8	C400	15	110	34	2.5
756520011	756520062-H	2500:5	2.0	200	540	0.3B1.8	C400	15	110	34	2.5
756520012	756520063-H	3000:5	2.0	240	648	0.3B1.8	C400	15	110	34	2.5
756520013	756520064-H	4000:5	1.5	320	864	0.3B1.8	C800	15	110	34	2.5
756520014	756520065-H	5000:5	1.5	400	1080	0.3B1.8	C800	15	110	34	2.5
756520015	756520066-H	200/400:5	3.0/3.0	32	86.4	0.3B0.2/B0.9	C50/C100	15	110	34	2.5
756520016	756520067-H	300/600:5	2.0/2.0	48	129.6	0.3B0.5/B1.8	C100/C200	15	110	34	2.5
756520017	756520068-H	400/800:5	2.0/2.0	64	172.8	0.3B0.9/B1.8	C100/C200	15	110	34	2.5
756520018	756520069-H	50/100:5	2.0/2.0	8	21.6	0.3B0.9/B1.8	C100/C200	15	110	34	2.5
756520019	756520070-H	600/1200:5	2.0/2.0	96	259.2	0.3B1.8/B1.8	C150/C300	15	110	34	2.5
756520020	756520071-H	750/1500:5	2.0/2.0	120	324	0.3B1.8/B1.8	C200/C400	15	110	34	2.5
756520021	756520072-H	800/1600:5	2.0/2.0	128	345.6	0.3B1.8/B1.8	C200/C400	15	110	34	2.5
756520022	756520073-H	1000/2000:5	2.0/2.0	160	432	0.3B1.8/B1.8	C200/C400	15	110	34	2.5
756520023	756520074-H	1500/3000:5	2.0/2.0	240	648	0.3B1.8/B1.8	C300/C600	15	110	34	2.5
756520024	756520075-H	2000/4000:5	2.0/1.5	320	864	0.3B1.8/B1.8	C400/C800	15	110	34	2.5
756520025	756520076-H	2500/5000:5	2.0/1.5	400	1080	0.3B1.8/B1.8	C400/C800	15	110	34	2.5
High Accuracy Extended Range 5% nominal current to Rating Factor											
756520029	756520080-H	200:5	4.0	16	43.2	0.15S B0.1/0.3B0.2	--	15	110	34	2.5
756520030	756520081-H	300:5	4.0	24	64.8	0.15S B0.5/0.3B0.9	--	15	110	34	2.5
756520031	756520082-H	400:5	4.0	32	86.4	0.15S B0.9/0.3B1.8	--	15	110	34	2.5
756520032	756520083-H	500:5	4.0	40	108	0.15S B0.9/0.3B1.8	--	15	110	34	2.5
756520033	756520084-H	600:5	4.0	48	129.6	0.15S B0.9/0.3B1.8	--	15	110	34	2.5
756520034	756520085-H	800:5	4.0	64	172.8	0.15S B0.9/0.3B1.8	--	15	110	34	2.5
756520035	756520086-H	1000:5	4.0	80	216	0.15S B1.8/0.15B1.8	--	15	110	34	2.5
756520036	756520087-H	1200:5	4.0	96	259.2	0.15S B1.8/0.15B1.8	--	15	110	34	2.5
756520037	756520088-H	1500:5	3.0	120	324	0.15S B1.8/0.15B1.8	--	15	110	34	2.5
756520038	756520089-H	2000:5	2.0	160	432	0.15S B1.8/0.15B1.8	--	15	110	34	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
756520042	756520093-H	500:5	4.0	40	108	0.15 B0.9/0.3B1.8	--	15	110	34	2.5
756520043	756520094-H	600:5	4.0	48	129.6	0.15 B0.9/0.3B1.8	--	15	110	34	2.5
756520044	756520095-H	800:5	4.0	64	172.8	0.15 B1.8/0.3B1.8	--	15	110	34	2.5
756520045	756520096-H	1000:5	4.0	80	216	0.15 B1.8/0.3B1.8	--	15	110	34	2.5
756520046	756520097-H	1200:5	4.0	96	259.2	0.15 B1.8/0.3B1.8	--	15	110	34	2.5
756520047	756520098-H	1500:5	3.0	120	324	0.15 B1.8/0.3B1.8	--	15	110	34	2.5
756520048	756520099-H	2000:5	2.0	160	432	0.15 B1.8/0.3B1.8	--	15	110	34	2.5