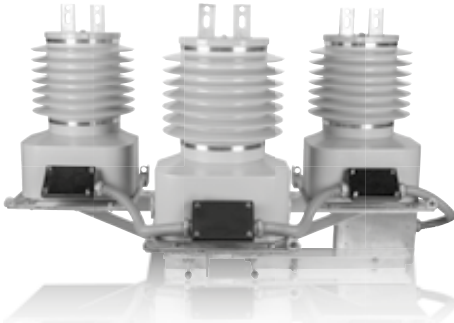


MK-25

25 kV METERING UNIT



OUTDOOR
60 Hertz

ARTECHE ME/MK series metering units are outdoor, three-phase, pole-mounted metering racks.

The rack is made of lightweight aluminium designed to mount on poles in an upright position. It includes two galvanized steel mounting bolts for attaching the metering unit to the pole, with pole diameters available from 8" to 14". Optional galvanized steel structures and/or other pole diameters are available upon request.

MK series incorporate 3 combined transformers mounted vertically. Their 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.

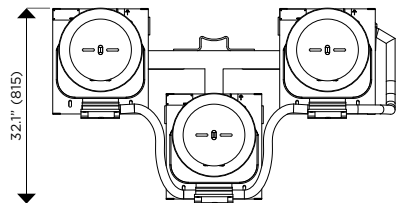
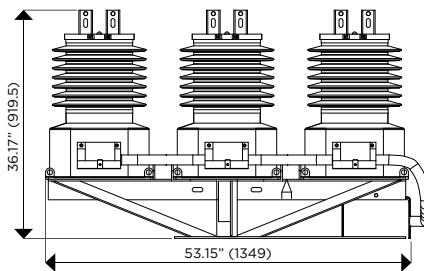
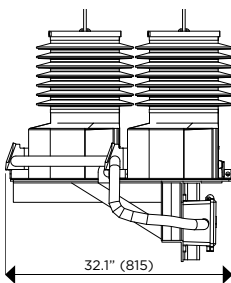
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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 (lbOz.)	Creepage distance (in)	Strike distance (in)
Resin	Gray*	755	32.6	16



Drawing number: 4286286

CONNECTIONS

PRIMARY TERMINAL

Type: NEMA-2
Material: Copper

GROUND CONNECTOR

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

SECONDARY TERMINAL

Type: Quick Connector • Material: Brass

MARKING

CONNECTION PLATE

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

MK-25

25 kV METERING UNIT

Electrical characteristics

Code * (CEP)	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})
770681016	5:5	1.5	0.5	1.4	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681026	10:5	1.5	1	2.7	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681036	15:5	1.5	1.5	4.1	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681046	20:5	1.5	2	5.4	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681056	25:5	1.5	2.5	6.8	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681066	30:5	1.5	3	8.1	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681076	40:5	1.5	4	10.8	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681086	50:5	1.5	5	13.5	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681096	75:5	1.5	7.5	20.3	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681106	100:5	1.5	10	27	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681116	150:5	1.5	15	40.5	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681126	200:5	1.5	20	54	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681136	300:5	1.5	30	81	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681146	400:5	1.5	40	108	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681156	600:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681166	800:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681176	1000:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770681186	1200:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor										
770687126	200:5	3.0	20	50	0.15 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770688126	200:5	1.5	20	50	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770688176	1000:5	1.5	75	127.5	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	25	150	50	2.5

* For HCEP Option add (-H) to the end of the code number.
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)
120:1	14400/24940GY	120	750	1.25	1.5

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

Notes:

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