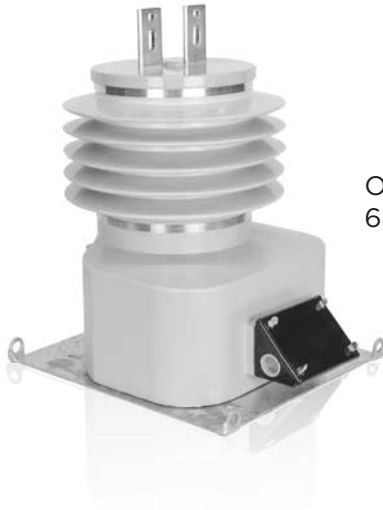


5 kV – 69 kV  
OUTDOOR  
INSTRUMENT  
TRANSFORMERS  
& METERING  
UNITS

# KM-15

# 15 kV COMBINED TRANSFORMER



**OUTDOOR  
60 Hertz**

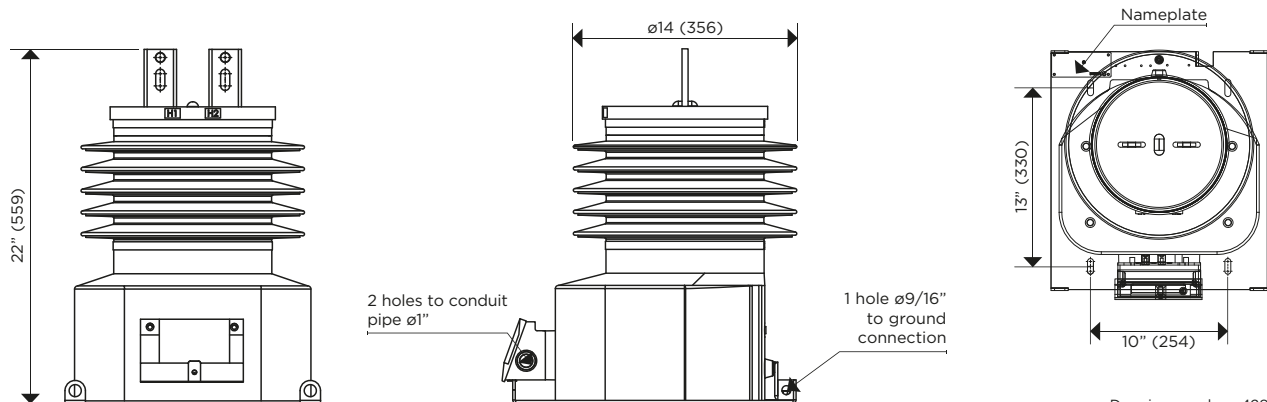
ARTECHE KM series are dry type outdoor service combination CT-PT. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects 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		Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Insulation Material	Colors			
Resin	Gray	209	23.7	13



Drawing number: 4286236

CONNECTIONS	PRIMARY TERMINAL	GROUND CONNECTOR	SECONDARY TERMINAL	MARKING (Single Primary Ratio)
	 Type: NEMA-2 Material: Copper	 Type: TE-12 250 Material: Copper Range: 4TRE-250MCM	 Type: Quick Connector Material: Brass	
			<b>ONE SECONDARY with tap</b> 	

Approximate dimensions in inches (mm).

Electrical characteristics											
Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA <sub>peak</sub> )	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 <sub>rms</sub> )	Secondary Winding (kV <sub>rms</sub> )
770083011	770086026-H	5:5	3.0	0.5	1.4	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083021	770086025-H	10:5	3.0	1	2.7	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083031	770086024-H	15:5	3.0	1.5	4.1	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083041	770086023-H	20:5	3.0	2	5.4	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083051	770086022-H	25:5	3.0	2.5	6.8	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083061	770086021-H	30:5	3.0	3	8.1	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083071	770086020-H	40:5	3.0	4	10.8	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083081	770086019-H	50:5	3.0	5	13.5	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083091	770086018-H	75:5	3.0	7.5	20.3	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083101	770086017-H	100:5	3.0	10	27	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083111	770086016-H	150:5	3.0	15	40.5	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083121	770086015-H	200:5	3.0	20	54	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083131	770086014-H	300:5	3.0	30	81	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083141	770086013-H	400:5	3.0	40	108	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083151	770086012-H	600:5	2.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770081161	770086029-H	800:5	1.5	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770081171	770086028-H	1000:5	1.2	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770081181	770086027-H	1200:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770084041	770086010-H	10/20:5	2.0/1.5	2	5	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770084081	770086009-H	25/50:5	2.0/1.5	5	12.5	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770084121	770086008-H	100/200:5	2.0/1.5	20	50	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770084151	770086007-H	300/600:5	2.0/1.5	60	150	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770084161	770086006-H	400/800:5	2.0/1.5	60	150	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770083161	770086011-H	400/800:5	3.0/1.5	60	150	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770084171	770086005-H	500/1000:5	2.0/1.2	75	127.5	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770084181	770086004-H	600/1200:5	2.0/1.0	90	162	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6 Z	15	110	34	2.5
<b>High Accuracy Extended Range</b> 1% nominal current to Rating Factor											
770087121	770086003-H	200:5	3.0	20	50	0.15 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770088121	770086002-H	200:5	1.5	20	50	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770088171	770086001-H	1000:5	1.5	75	127.5	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	15	110	34	2.5

Additional ratings available upon request.

Voltage Ratings					
VT Ratio	Primary (V)	Secondary (V)	Thermal Burden (VA)	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30s (Un)
60:1	7200/12470GY	120	750	1.25	1.5

NOTE: Line-to-Ground Connection Only.

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

## Notes:

.....

.....

.....

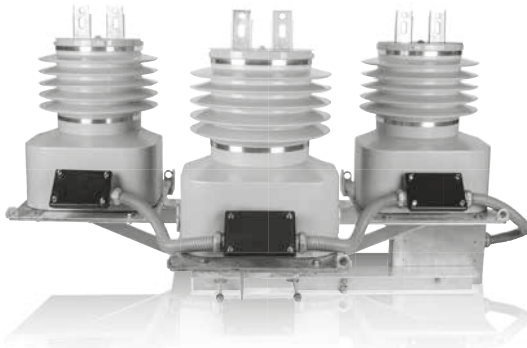
.....

.....

.....

# MK-15

## 15 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.

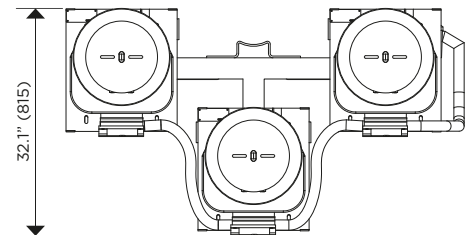
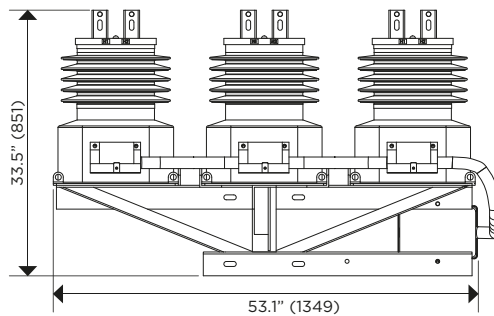
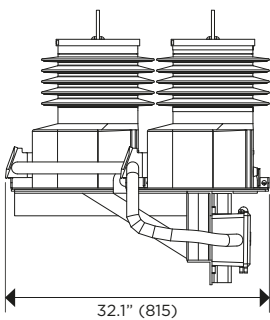
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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 (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	692	23.7	13



Drawing number: 4286285

	PRIMARY TERMINAL	GROUND CONNECTOR	CONNECTION PLATE
CONNECTIONS			
	Type: NEMA-2 Material: Copper	Type: TE-12 250 • Material: Copper Range: 4TRE-250MCM	
MARKING			
	Type: Quick Connector • Material: Brass		

Approximate dimensions in inches (mm).

# MK-15

# 15 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 <sub>peak</sub> )	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 <sub>rms</sub> )	Secondary Winding (kV <sub>rms</sub> )
770663011	5:5	3.0	0.5	1.4	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663021	10:5	3.0	1	2.7	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663031	15:5	3.0	1.5	4.1	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663041	20:5	3.0	2	5.4	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663051	25:5	3.0	2.5	6.8	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663061	30:5	3.0	3	8.1	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663071	40:5	3.0	4	10.8	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663081	50:5	3.0	5	13.5	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663091	75:5	3.0	7.5	20.3	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663101	100:5	3.0	10	27	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663111	150:5	3.0	15	40.5	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663121	200:5	3.0	20	54	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663131	300:5	3.0	30	81	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663141	400:5	3.0	40	108	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663151	600:5	2.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663161	800:5	1.5	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663171	1000:5	1.2	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770663181	1200:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
<b>High Accuracy Extended Range</b> 1% nominal current to Rating Factor										
770667121	200:5	3.0	20	50	0.15 B-0.5	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770668121	200:5	1.5	20	50	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	15	110	34	2.5
770668171	1000:5	1.5	75	127.5	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	15	110	34	2.5

\* For HCEP Option add (-H) to the end of the code number.  
Additional ratings available upon request.

Voltage Ratings					
VT Ratio	Primary (V)	Secondary (V)	Thermal Burden (VA)	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30s (Un)
60:1	7200/12470GY	120	750	1.25	1.5

NOTE: Line-to-Ground Connection Only.

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

## Notes:

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

# ME-015

## 15 kV METERING UNIT

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

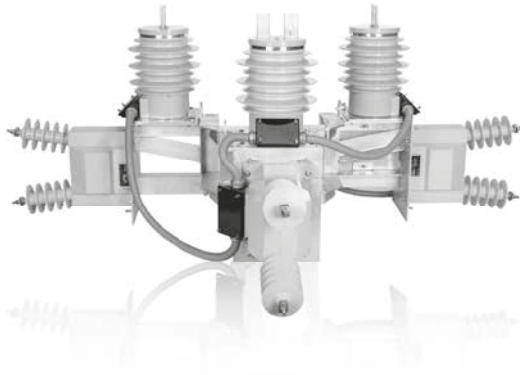
The rack is made of lightweight aluminium designed to mount on poles in an upright position. It includes two galvanized steel mounting bolts for attaching the metering unit to the pole, with pole diameters available from 8" to 14". Optional galvanized steel structures and/or other pole diameters are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

ME series incorporate 3 current transformers mounted vertically and 3 voltage transformers mounted horizontally. 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.

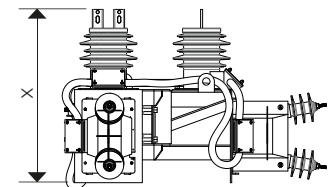
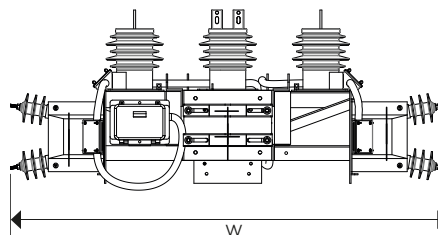
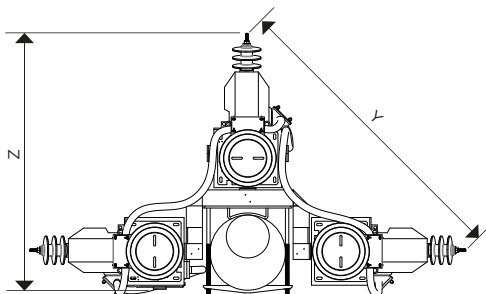
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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.

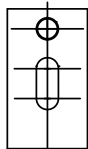


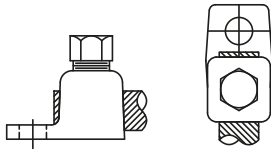
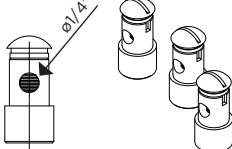
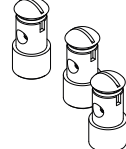

Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.



OUTDOOR  
60 Hertz



Drawing number: 4287215

	PRIMARY TERMINAL CT	PRIMARY TERMINAL VT	GROUND CONNECTOR	SECONDARY TERMINAL
CONNECTIONS				
	Type: NEMA-2 Material: Copper	Type: TE-4T Material: Copper Range: 8SOL-4TRE	Type: TE-12-250 Material: Copper Range: 4TRE-250MCM	Type: Quick Connector Material: Brass
				
				
				



# MI-015

## 15 kV METERING UNIT



OUTDOOR  
60 Hertz

ARTECHE MI series metering units are outdoor, three-phase, pad-mounted cabinets.

The cabinet is made of #12 caliber stainless steel lamination (2.7 mm or 0.105 in) with Munsell Green #7GY 3.29/1.5 powder finish. The doors are pad-lockable with a three point latch and a penta-head bolt.

MI series incorporate 3 combined transformers. Their core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The entire surface of the transformer is coated with a conductive layer that is intended to be solidly grounded when energized. This allows for compact mounting inside switchgear or enclosures.

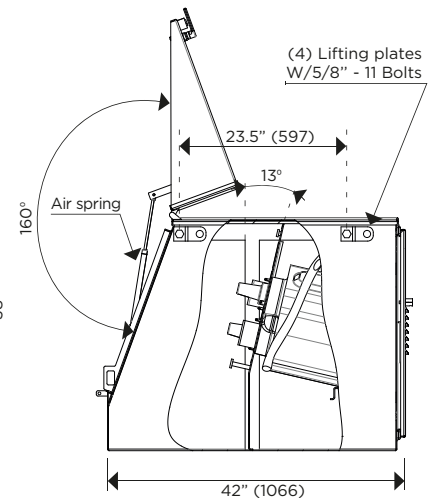
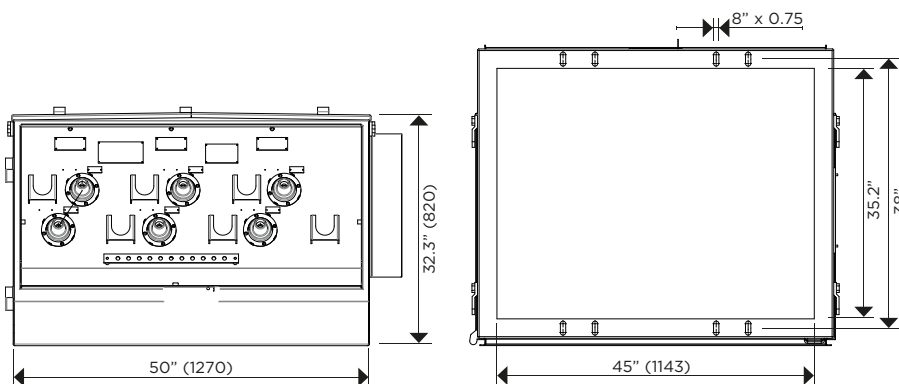
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

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

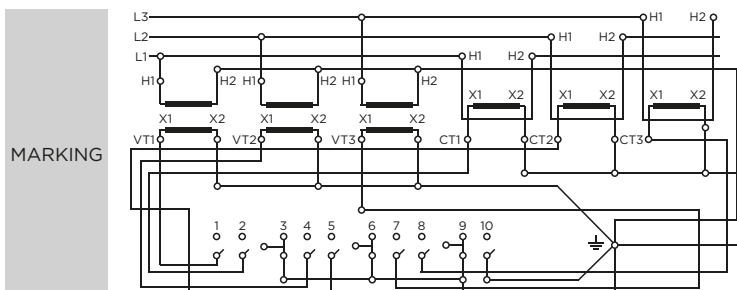
The primary bushing well connections are IEEE 386 compliant, rated 200 A loadbreak or 600 A non load-break.. The secondary terminals are pre-wired to a 10 position test switch and 9S meter socket in standard red/black colors.

### Mechanical characteristics

Material	Colors	Weight (lbs.)
Stainless steel	Munsell Green	992



Drawing number: 4287010



Approximate dimensions in inches (mm).



# MI-015

## 15 kV METERING UNIT

### Electrical characteristics

Code	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA <sub>peak</sub> )	IEEE Metering Accuracy [Current Transformer]	IEEE Metering Accuracy [Voltage Transformer]	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)		Primary
									Primary & Secondary (kV <sub>rms</sub> )	Secondary Winding (kV <sub>rms</sub> )	
770574011	5:5	2,0	0,5	1,25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574021	10:5	2,0	1	2,5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574031	15:5	2,0	1,5	3,75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574041	20:5	2,0	2	5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574051	25:5	2,0	2,5	6,25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574061	30:5	2,0	3	7,5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574081	40:5	2,0	4	10	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574101	50:5	2,0	5	12,5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574151	75:5	2,0	7,5	18,75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770574201	100:5	2,0	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770575301	150:5	1,33	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770575401	200:5	1,0	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770571131	300:5	1,5	30	75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	600 A Dead break Interface 15.2kV
770571141	400:5	1,5	40	100	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	600 A Dead break Interface 15.2kV
770571161	600:5	1,0	60	150	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	600 A Dead break Interface 15.2kV
770571101	100:5	2,0	10	25	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	200 A Bushing Well Interface
770571121	200:5	2,0	20	50	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	600 A Dead break Interface 15.2kV
770571151	600:5	1,0	48	120	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	15	95	34	2,5	600 A Dead break Interface 15.2kV

\* Accuracy range: 1% to RF

### Voltage Ratings

VT Ratio	Primary (V)	Secondary (V)	Thermal Burden (VA)	Continuous Rated Voltage Factor (Un)	Rated Voltage Factor 30s (Un)
60:1	7200/12470GY	120	750	1.1	1.25

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

### Notes:

.....

.....

.....

.....

.....

.....

.....

.....

.....

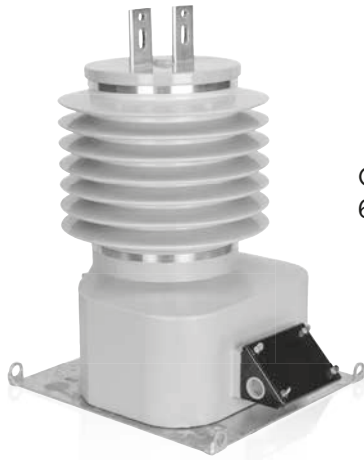
.....

.....

.....

# KM-25

## 25 kV COMBINED TRANSFORMER



**OUTDOOR**  
60 Hertz

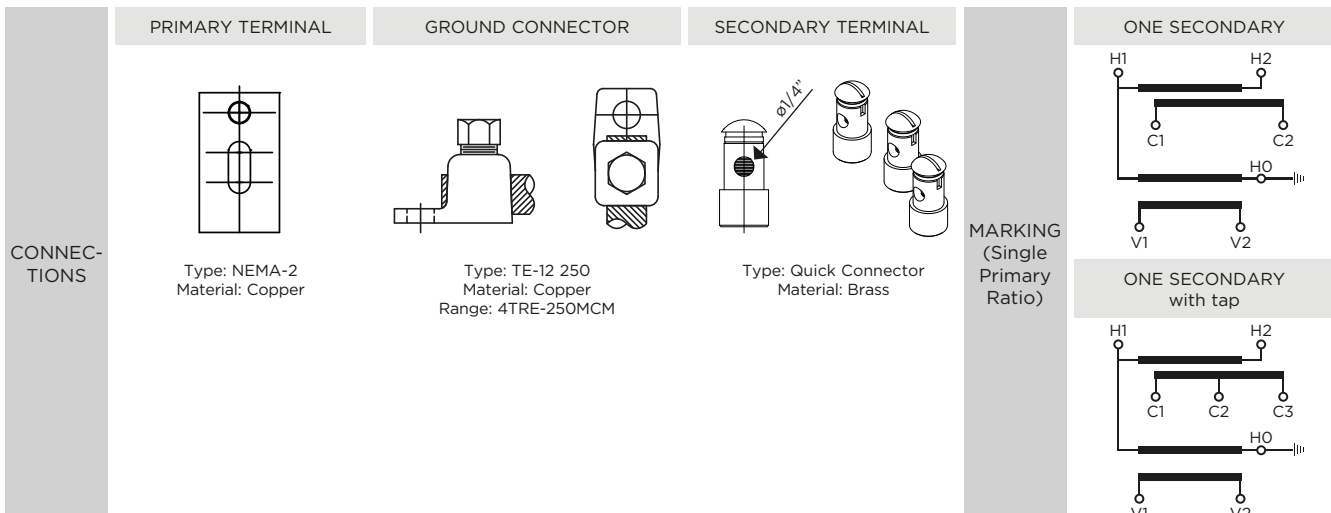
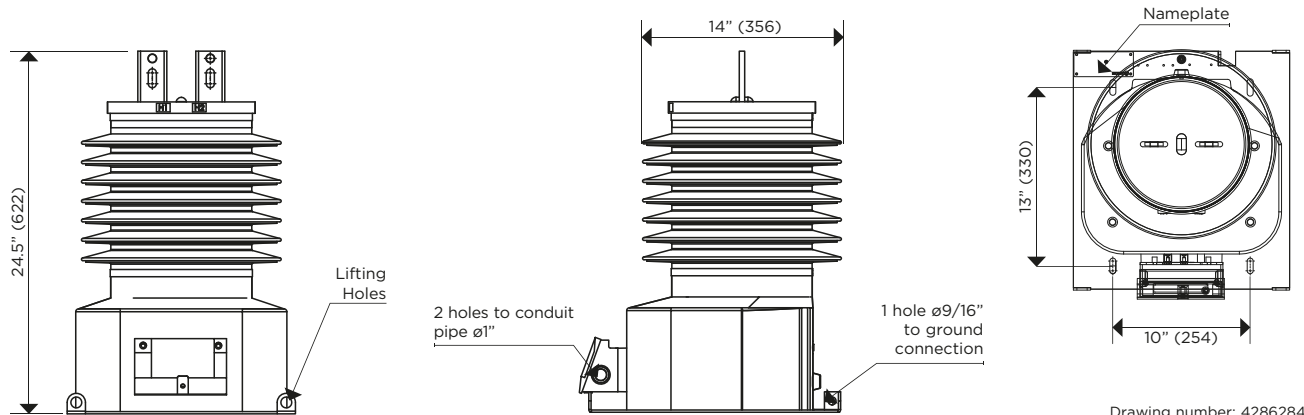
ARTECHE KM series are dry type outdoor service combination CT-PT. The core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength. The external layer of Cycloaliphatic Epoxy Resin (CEP) provides resistance to ultraviolet rays and the effects 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 IEEE C57.13 2016 requirements

Mechanical characteristics		Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Insulation Material	Colors			
Resin	Gray	230	32.6	16



Approximate dimensions in inches (mm).

# KM-25

# 25 kV COMBINED TRANSFORMER

Electrical characteristics											
Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA <sub>peak</sub> )	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 <sub>rms</sub> )	Secondary Winding (kV <sub>rms</sub> )
770061016	770066029-H	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
770061026	770066028-H	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
770061036	770066027-H	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
770061046	770066026-H	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
770061056	770066025-H	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
770061066	770066024-H	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
770061076	770066023-H	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
770061086	770066022-H	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
770061096	770066021-H	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
770061106	770066020-H	100:5	1.5	10	27	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061116	770066019-H	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
770061126	770066018-H	200:5	1.5	20	54	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061136	770066017-H	300:5	1.5	30	81	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061146	770066016-H	400:5	1.5	40	108	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061156	770066015-H	600:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061166	770066014-H	800:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061176	770066013-H	1000:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770061186	770066012-H	1200:5	1.0	60	162	0.3 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770064046	770066011-H	10/20:5	2.0/1.5	2	5	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770064086	770066010-H	25/50:5	2.0/1.5	5	12.5	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770064126	770066009-H	100/200:5	2.0/1.5	20	50	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770064136	770066008-H	150/300:5	2.0/1.5	30	75	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770066136	770066004-H	150/300:5	4.0/2.0	30	75	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770064156	770066007-H	300/600:5	2.0/1.5	60	150	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770064176	770066006-H	500/1000:5	2.0/1.2	75	127.5	0.3 B0.2/B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770064186	770066005-H	600/1200:5	2.0/1.0	90	162	0.3 B0.2/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											
770067126	770066003-H	200:5	3.0	20	50	0.15 B-0.5	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770068126	770066002-H	200:5	1.5	20	50	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	25	150	50	2.5
770068176	770066001-H	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

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

NOTE: Line-to-Ground Connection Only.

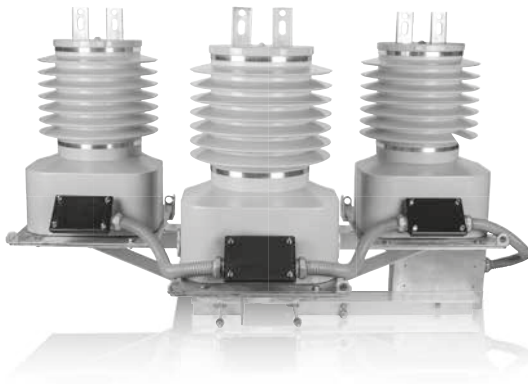
Additional VT ratios are available. Please contact Arteche for details.

## Notes:

.....  
 .....  
 .....  
 .....  
 .....  
 .....

# 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.

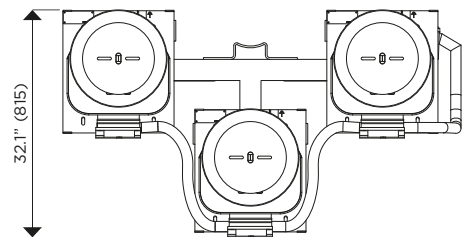
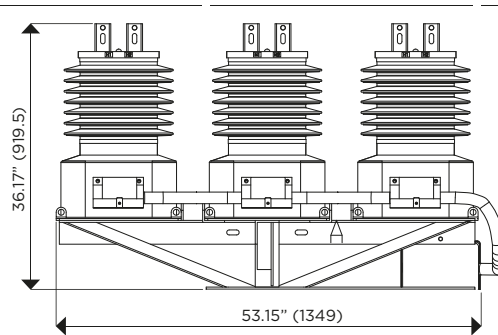
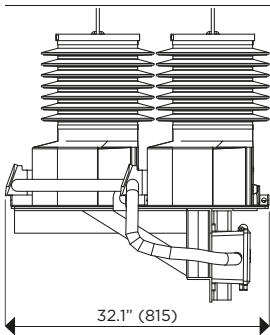
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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.

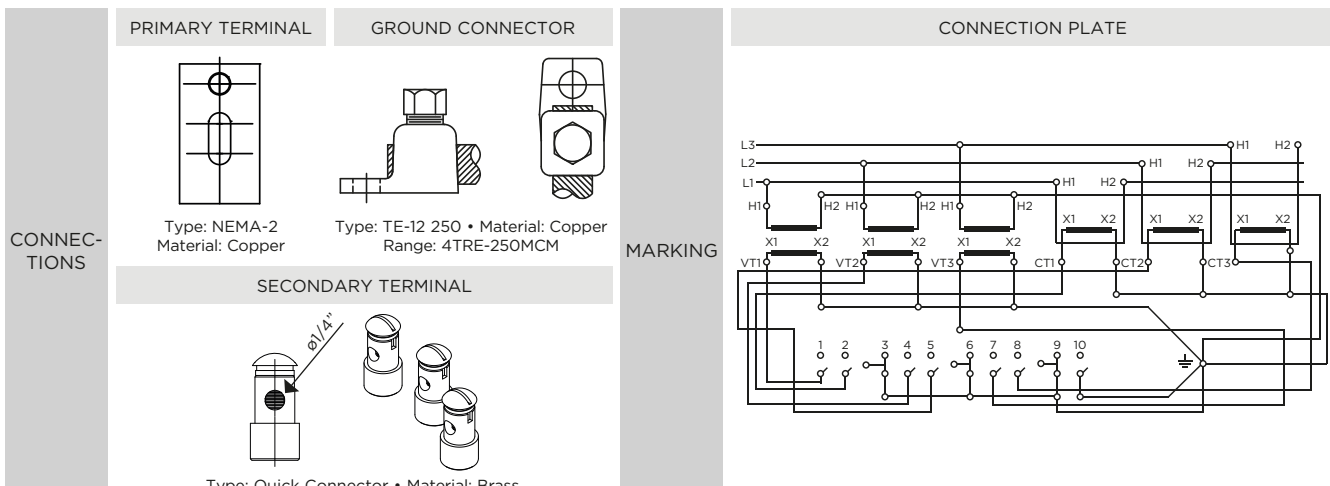
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

### Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	755	32.6	16



Drawing number: 4286286



Approximate dimensions in inches (mm).

# 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 <sub>peak</sub> )	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 <sub>rms</sub> )	Secondary Winding (kV <sub>rms</sub> )
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
<b>High Accuracy Extended Range</b> 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

NOTE: Line-to-Ground Connection Only.

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

### Notes:

.....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....  
 .....

# ME-025

## 25 kV METERING UNIT

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

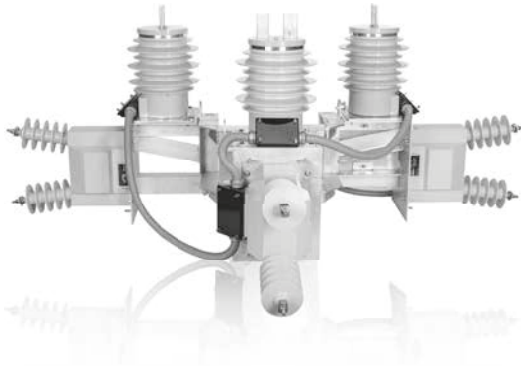
The rack is made of lightweight aluminium designed to mount on poles in an upright position. It includes two galvanized steel mounting bolts for attaching the metering unit to the pole, with pole diameters available from 8" to 14". Optional galvanized steel structures and/or other pole diameters are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

ME series incorporate 3 current transformers mounted vertically and 3 voltage transformers mounted horizontally. 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.

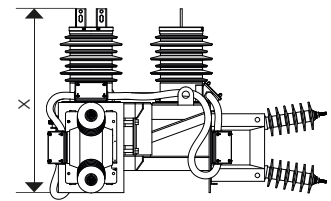
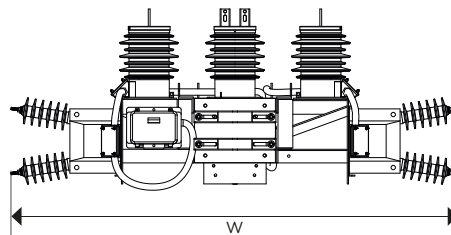
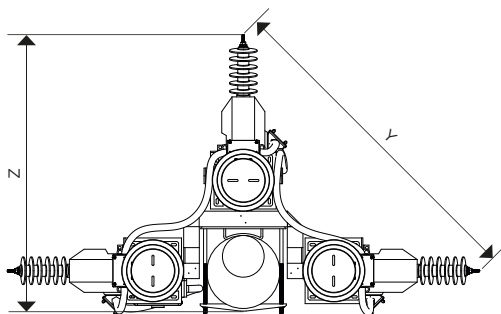
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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.



OUTDOOR  
60 Hertz



Drawing number: 4287228

	PRIMARY TERMINAL CT	PRIMARY TERMINAL VT	GROUND CONNECTOR	SECONDARY TERMINAL
CONNECTIONS				
	Type: NEMA-2 Material: Copper	Type: TE-4T Material: Copper Range: 8SOL-4TRE	Type: TE-12-250 Material: Copper Range: 4TRE-250MCM	Type: Quick Connector Material: Brass

# ME-025

## 25 kV METERING UNIT

Characteristics									
Type	Transformers		Code* (CEP)		Dimensions (in)				Weight with Aluminium Rack (lb)
	Current	Potential	With FUSE in the secondary box	Without FUSE in the secondary box	W	X	Y	Z	
ME-025	CRE-24	URJ-24	771020005	771020009	91	35.31	64.43	53.25	648
ME-025	CRE-24	VRJ-24	771020006	771020010	90.5	35.31	64.43	53	666
ME-025	CRF-24	URN-24	771020007	771020011	87.5	34.25	61.81	51.5	881
ME-025	CRF-24	VRN-24	771020008	771020012	87.34	34.25	61.81	51.5	881

**\* For HCEP Option add (-H) to the end of the code number.**

Approximate dimensions in inches.

For detail electric characteristics see particular instrument transformer detail in its data sheet within this publication.

Notes: .....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

# MI-025

## 25 kV METERING UNIT



OUTDOOR  
60 Hertz

ARTECHE MI series metering units are outdoor, three-phase, pad-mounted cabinets.

The cabinet is made of #12 caliber stainless steel lamination (2.7 mm or 0.105 in) with Munsell Green #7GY 3.29/1.5 powder finish. The doors are pad-lockable with a three point latch and a penta-head bolt.

MI series incorporate 3 combined transformers. Their core is encapsulated with Type B epoxy resin which provides excellent internal dielectric properties and mechanical strength, ensuring a long mechanical and electrical life. The transformer is maintenance free.

The entire surface of the transformer is coated with a conductive layer that is intended to be solidly grounded when energized. This allows for compact mounting inside switchgear or enclosures.

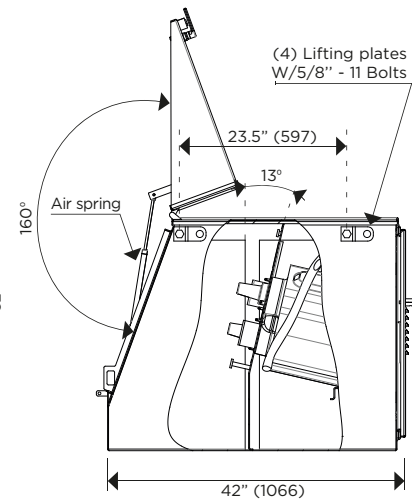
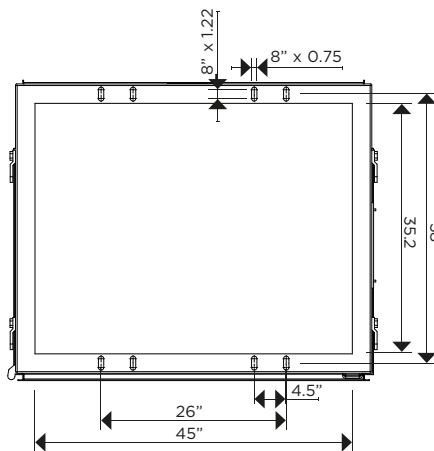
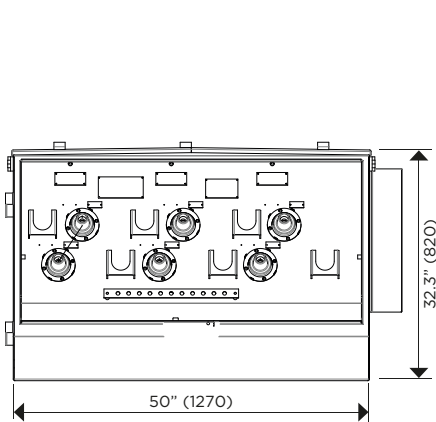
The core is built with high permeability grain oriented silicon steel laminations for low losses. The windings are copper wire with copper plate double isolation. The concentric distribution of the coils prevents magnetic flux leakage, achieving greater accuracy and higher capacity to withstand mechanical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

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

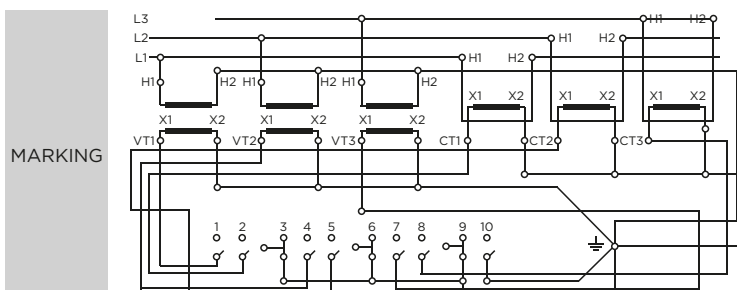
The primary bushing well connections are IEEE 386 compliant, rated 200 A loadbreak or 600 A non load-break. The secondary terminals are pre-wired to a 10 position test switch and 9S meter socket in standard red/black colors.

### Mechanical characteristics

Material	Colors	Weight (lbs.)
Stainless steel	Munsell Green	992



Drawing number: 4287251



Approximate dimensions in inches (mm).



# MI-025

## 25 kV METERING UNIT

Electrical characteristics											
Code	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short- time Thermal Current (kA/1s)	Short-time Mechanical Current (kA <sub>peak</sub> )	IEEE Metering Accuracy [Current Transformer]	IEEE Metering Accuracy [Voltage Transformer]	Nominal Voltage System (kV)	BIL (kV)	Power-Frequency Withstand Voltage (1 min)		Primary
									Primary & Secondary (kV <sub>rms</sub> )	Secondary Winding (kV <sub>rms</sub> )	
770584016	5:5	2.0	0.5	1.25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584026	10:5	2.0	1	2.5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584036	15:5	2.0	1.5	3.75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584046	20:5	2.0	2	5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584056	25:5	2.0	2.5	6.25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584066	30:5	2.0	3	7.5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584086	40:5	2.0	4	10	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584106	50:5	2.0	5	12.5	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584156	75:5	2.0	7.5	18.75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770584206	100:5	2.0	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770585306	150:5	1.33	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770585406	200:5	1.0	10	25	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770581136	300:5	1.5	30	75	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	600 A Dead break Interface 21.1kV
770581146	400:5	1.5	40	100	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	600 A Dead break Interface 21.1kV
770581166	600:5	1.0	60	150	0.3 B-0.5	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	600 A Dead break Interface 21.1kV
770581106	100:5	2.0	10	25	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	200 A Bushing Well Interface
770581126	200:5	2.0	20	50	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	600 A Dead break Interface 21.1kV
770581156	600:5	1.0	48	120	0.15 B-0.5*	0.3 W,X,M,Y/1.2Z	25	125	50	2.5	600 A Dead break Interface 21.1kV

\* Accuracy range: 1% to RF

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	1.1	1.25

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

### Notes:

.....

.....

.....

.....

.....

.....

.....

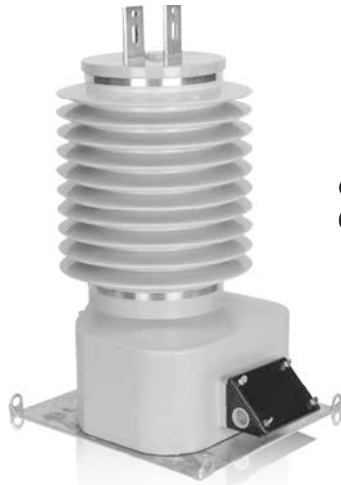
.....

.....

.....

# KM-34

## 34.5 kV COMBINED TRANSFORMER



**OUTDOOR  
60 Hertz**

ARTECHE KM series are dry type outdoor service combination CT-PT. 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.

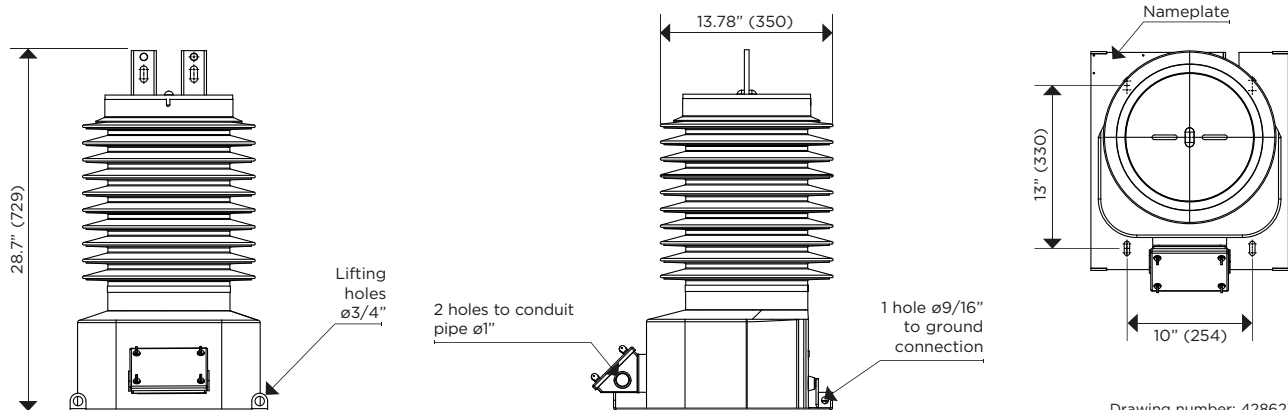
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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.

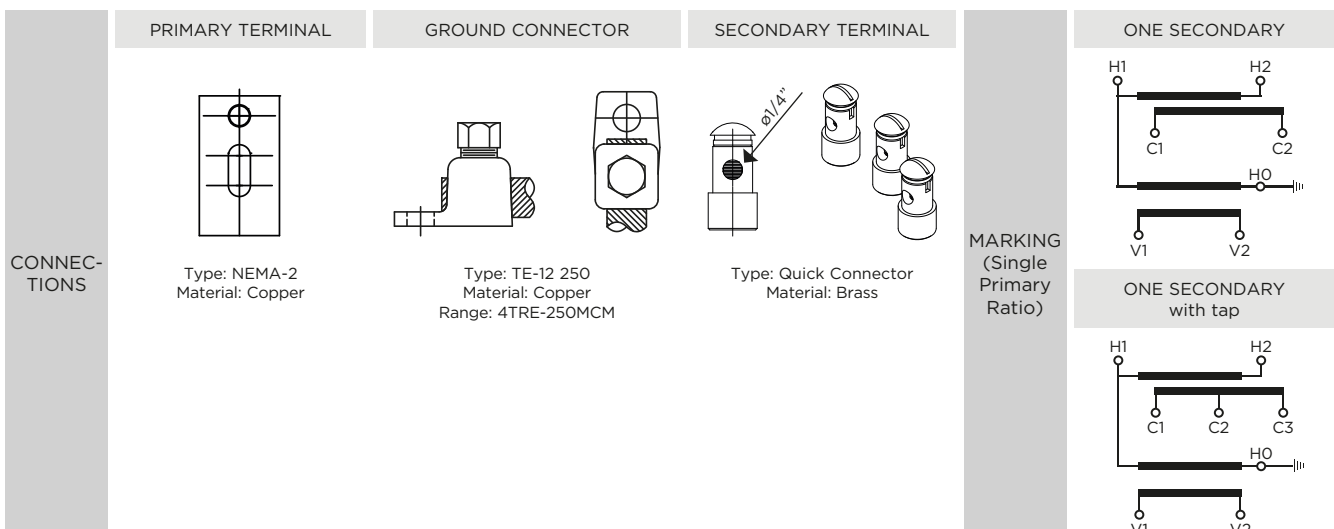
Partial Discharge measurements exceed IEEE C57.13 2016 requirements

### Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	264	46	21



Drawing number: 4286237



Approximate dimensions in inches (mm).

Electrical characteristics											
Code (CEP)	Code (HCEP)	Current Ratio (Primary: Secondary)	Continuous Thermal Current Rating Factor @ 30°C	Short-time Thermal Current (kA/1s)	Short-time Mechanical Current (kA <sub>peak</sub> )	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 <sub>rms</sub> )	Secondary Winding (kV <sub>rms</sub> )
770073017	770076026-H	5:5	3.0	0.5	1.4	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073027	770076025-H	10:5	3.0	1	2.7	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073037	770076024-H	15:5	3.0	1.5	4.1	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073047	770076023-H	20:5	3.0	2	5.4	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073057	770076022-H	25:5	3.0	2.5	6.8	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073067	770076021-H	30:5	3.0	3	8.1	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073077	770076020-H	40:5	3.0	4	10.8	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073089	770073088-H	50:5	3.0	5	13.5	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073097	770076018-H	75:5	3.0	7.5	20.3	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073107	770076017-H	100:5	3.0	10	27	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073117	770076016-H	150:5	3.0	15	40.5	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073127	770076015-H	200:5	3.0	20	54	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073137	770076014-H	300:5	3.0	30	81	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073147	770076013-H	400:5	3.0	40	108	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073157	770076012-H	600:5	2.0	60	162	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770071167	770076029-H	800:5	1.5	60	162	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770071177	770076028-H	1000:5	1.2	60	162	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770071187	770076027-H	1200:5	1.0	60	162	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770074047	770076010-H	10/20:5	2.0/1.5	2	5.4	0.3B-0.5/B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770074087	770076009-H	25/50:5	2.0/1.5	5	13.5	0.3B-0.5/B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770074127	770076008-H	100/200:5	2.0/1.5	20	54	0.3B-0.5/B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770074157	770076007-H	300/600:5	2.0/1.5	60	162	0.3B-0.5/B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770074167	770076006-H	400/800:5	2.0/1.5	60	162	0.3B-0.5/B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770073167	770076011-H	400/800:5	3.0/1.5	60	162	0.3B-0.5/B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770074177	770076005-H	500/1000:5	2.0/1.2	60	162	0.3B-0.5/B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770074187	770076004-H	600/1200:5	2.0/1.0	60	162	0.3B-0.5/B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
High Accuracy Extended Range 1% nominal current to Rating Factor											
770077127	770076003-H	200:5	3.0	20	50	0.15 B-0.5	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770078127	770076002-H	200:5	1.5	20	50	0.15 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770078177	770076001-H	1000:5	1.5	75	127.5	0.15 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5

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)
175:1	20125/34500GY	115	750	1.25	1.5

NOTE: Line-to-Ground Connection Only.

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

## Notes:

.....

.....

.....

.....

.....

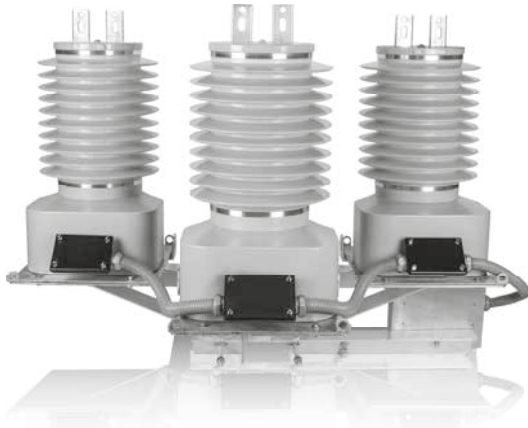
.....

.....

.....

# MK-34

## 34.5 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.

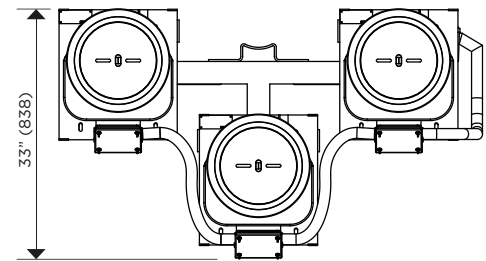
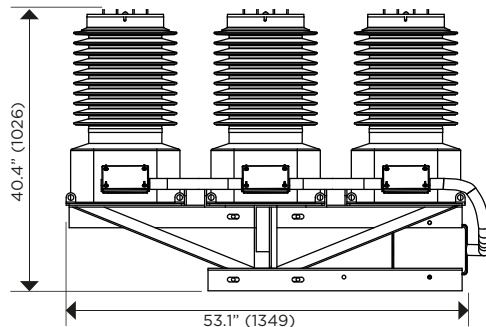
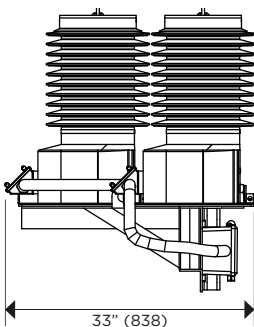
The external layer can be manufactured with Hydrophobic Cycloaliphatic Epoxy Resin (HCEP) which improves service life expectancy due to its improved tracking and erosion resistance. HCEP additionally increases the transformer's weatherability and offers better performance in heavily polluted environments.

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.

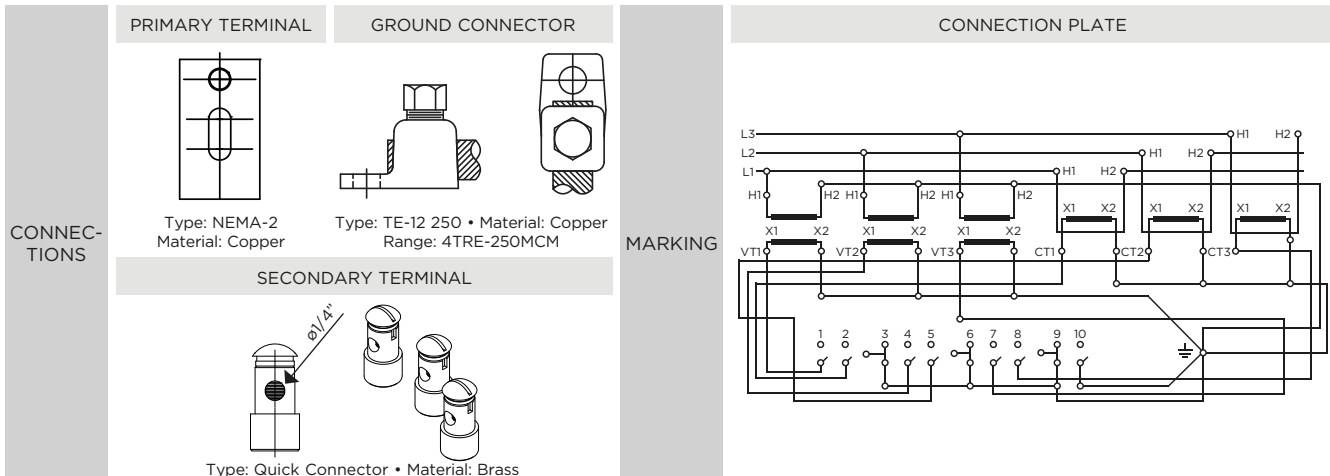
Partial Discharge measurements exceed the IEEE, CAN/CSA and IEC requirements.

### Mechanical characteristics

Insulation Material	Colors	Weight (lbs.)	Creepage distance (in)	Strike distance (in)
Resin	Gray	857	46	21



Drawing number: 4286287



Approximate dimensions in inches (mm).

# MK-34

## 34.5 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 <sub>peak</sub> )	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 <sub>rms</sub> )	Secondary Winding (kV <sub>rms</sub> )
770693017	5:5	3.0	0.5	1.4	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693027	10:5	3.0	1	2.7	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693037	15:5	3.0	1.5	4.1	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693047	20:5	3.0	2	5.4	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693057	25:5	3.0	2.5	6.8	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693067	30:5	3.0	3	8.1	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693077	40:5	3.0	4	10.8	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693087	50:5	3.0	5	13.5	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693097	75:5	3.0	7.5	20.3	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693107	100:5	3.0	10	27	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693117	150:5	3.0	15	40.5	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693127	200:5	3.0	20	54	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693137	300:5	3.0	30	81	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693147	400:5	3.0	40	108	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693157	600:5	2.0	60	162	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693167	800:5	1.5	60	162	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693177	1000:5	1.2	60	162	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
770693187	1200:5	1.0	60	162	0.3 B-1.8	0.3 W,X,M,Y/1.2Z	34.5	200	70	2.5
<b>High Accuracy Extended Range</b> 1% nominal current to Rating Factor										
770697127	200:5	3.0	20	54	0.15 B-0.5	0.3 W,X,M,Y/0.6Z	34.5	200	70	2.5
770698127	200:5	1.5	20	54	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	34.5	200	70	2.5
770698177	1000:5	1.5	75	127.5	0.15 B-1.8	0.3 W,X,M,Y/0.6Z	34.5	200	70	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)
175:1	20125/34500GY	115	750	1.25	1.5

NOTE: Line-to-Ground Connection Only.

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

### Notes:

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

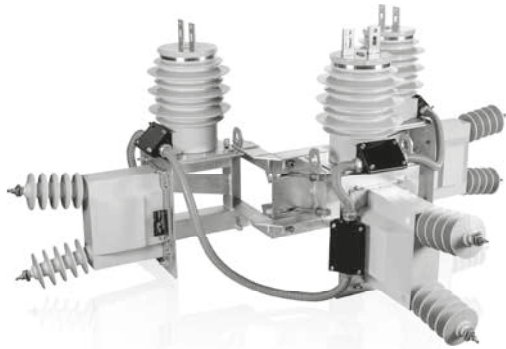
.....

.....

.....

# ME-036

## 34.5 kV METERING UNIT



OUTDOOR  
60 Hertz

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

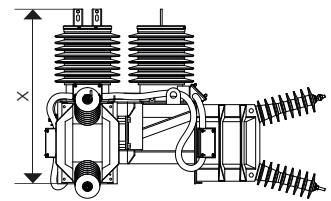
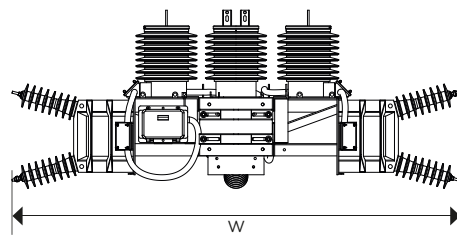
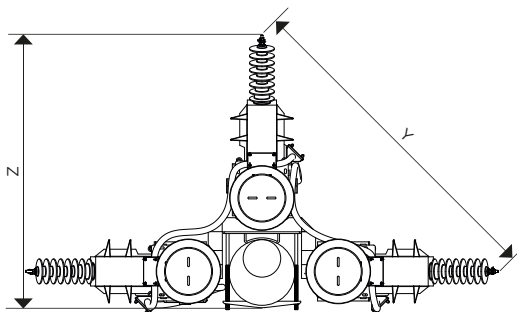
The rack is made of lightweight aluminium designed to mount on poles in an upright position. It includes two galvanized steel mounting bolts for attaching the metering unit to the pole, with pole diameters available from 8" to 14". Optional galvanized steel structures and/or other pole diameters are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

ME series incorporate 3 current transformers mounted vertically and 3 voltage transformers mounted horizontally. 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.



Drawing number: 4287229

	PRIMARY TERMINAL CT	PRIMARY TERMINAL VT	GROUND CONNECTOR	SECONDARY TERMINAL
CONNECTIONS				
	Type: NEMA-2 Material: Copper	Type: TE-4T Material: Copper Range: 8SOL-4TRE	Type: TE-12-250 Material: Copper Range: 4TRE-250MCM	Type: Quick Connector Material: Brass