

KOR-20ER

Extended range outdoor metering current transformer



The KOR-20ER extended range outdoor current transformer is designed for metering outdoor 34.5 kV systems. Due to its wide operating range and high accuracy, it provides greater value by reducing inventory requirements and increasing revenue.

Product features

- 34.5 kV outdoor
- 200 kV BIL, 60 Hertz
- Electrical clearances:
Strike: 15.75" (400 mm); Creep: 36.50" (927 mm)
- Approximate weight: 110 lbs. (50 kg)

Application

The KOR-20ER extended range outdoor current transformer is designed for metering outdoor 34.5 kV systems. Ideal for use in cogeneration and in applications where there are large power exchanges, the unit preserves stated accuracies with loads ranging from one percent of the full rated current through the rating factor. The KOR-20ER provides greater value for the customer by reducing inventory requirements due to its wide operating range in conventional metering applications.

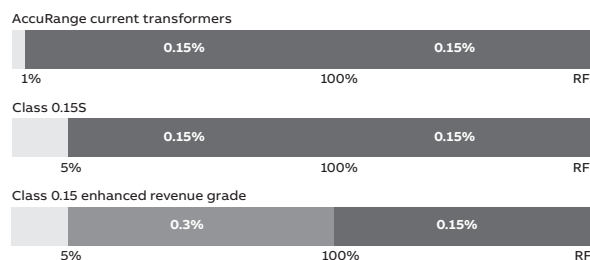
Construction features

Primary and secondary windings are assembled around a toroidal core and attached to a support frame. For insulation and protection, the assembly is cast in hydrophobic cycloaliphatic epoxy (HCEP) using automatic pressure gelation. The HCEP material offers superior arc track, ozone, and ultraviolet-resistive properties while maintaining physical strength. Hydrophobic surface properties

ensure highly reliable performance in wet, humid, or polluted environments.

Extended range

ABB's extended range design delivers high accuracy and stable performance over a wide load swing, making it a great fit for variable load applications. Accuracy is guaranteed to be +/- 0.15% from 1% of nominal current through rating factor. ABB's extended range units deliver savings through improved accuracy metering and reduced inventory.



Terminals

Primary terminals are electro-tin plated copper. Clamp-type secondary terminals accommodate #14 through #1 wire.

Junction box

The junction box is provided with 1" conduit hubs on each end and a knock-out for fitting a conduit

connection from the bottom. It may be detached for ease of installation and changeout procedures.

Baseplate

The baseplate is constructed of corrosion-resistant aluminum and is secured to the encapsulated base support.

Mounting

The KOR-20ER can be mounted in upright, cantilever, or upside-down positions. Stress relief devices should be used to support cable connections.

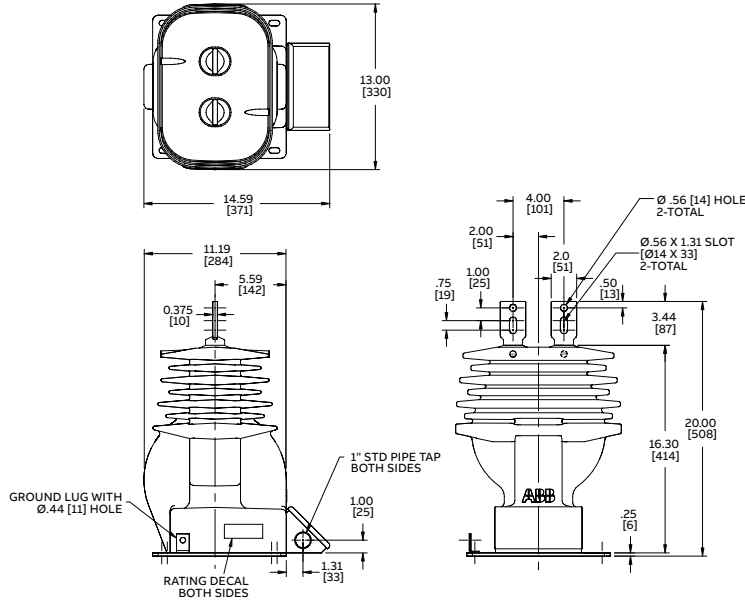
Test reports

Test reports are stored electronically and can be e-mailed in various formats at the time of shipment.

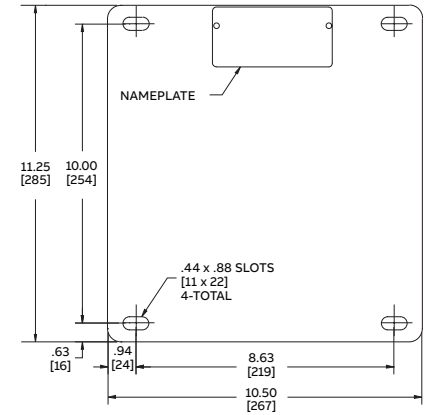
Standards

This unit meets or exceeds all requirements of IEEE C57.13-2016 and can be tested to other standards as requested.

Unit dimensions (inches [mm])



Baseplate dimensions (inches [mm])



Selection guide

Primary amperes	Rating factor @ 30° C	Metering accuracy	Thermal rating*	Mechanical rating [†]	Style number
25	3.0	0.15S-0.5	100	270	E-923A433G15
50	1.5	0.15S-1.8	100	270	E-923A433G10
100	1.5	0.15S-0.9	100	270	E-923A433G12
200	1.5	0.15S-1.8	100	270	E-923A433G01
300	1.5	0.15S-1.8	100	270	E-923A433G11
400	1.5	0.15S-1.8	100	270	E-923A433G07
600	1.5	0.15S-1.8	100	270	E-923A433G19
800	1.5	0.15S-1.8	75	200	E-923A433G08
1000	1.5	0.15S-1.8	60	160	E-923A433G02

Additional styles available upon request. Contact your ABB sales representative or call +1-252-827-3212 for more information.

At higher operating temperatures the rating factor must be reduced, see IEEE C57.13 figure 1. Example: RF of 1.5 @30°C must be reduced to 1.2@55°C.

Relay accuracy: not to be used for relay applications

+ times normal

For 50 Hz styles, contact the factory.