

# Type KON-17

## Outdoor current transformer

### Product features

- 12 and 17.5 kV, outdoor
- 110 kV BIL, 50 and 60 Hertz
- Power frequency withstand voltage: 42 kV
- Primary amperes: 5-1200
- Electrical clearances:
  - Strike: 8.8" (224 mm)
  - Creep: 19.5" (495 mm)
- Approximate weight: 44 lbs (20 kg)

### Application

The KON-17 outdoor current transformer is used in measuring and protective applications on outdoor 12 and 17.5 kV circuits.

### 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. The hydrophobic surface properties of HCEP ensure highly reliable performance in wet or humid environments.

### Terminals

Primary terminals are electro-tin plated copper. Clamp-type secondary terminals accommodate 2.5 mm<sup>2</sup> through 25 mm<sup>2</sup> wire.

### Junction box

The metal junction box has a 1" conduit hub on each end. The box is anchored to the body of the transformer with screws and can be easily detached, simplifying installation and change-out procedures.

### Baseplate

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

### Mounting

The KON-17 can be mounted in upright, cantilever, or upside-down positions. Stress relief devices should be used to support cable connections.



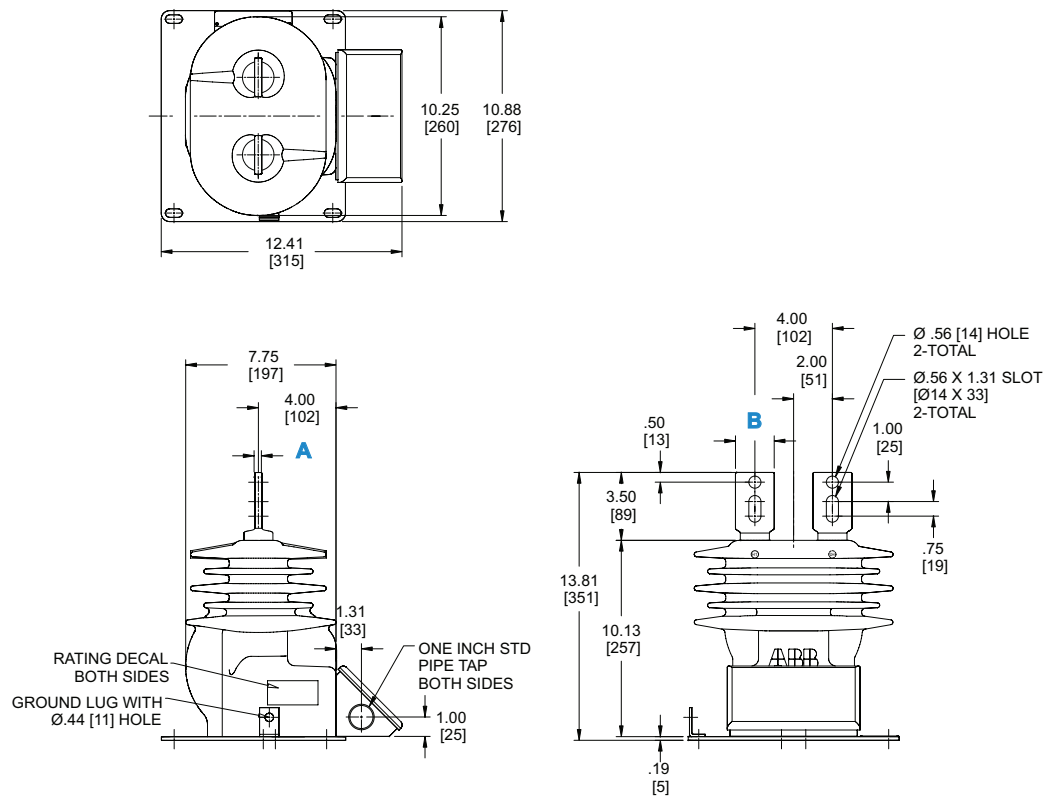
### Test reports

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

### Standards

This unit meets all applicable ANSI, CSA, and IEC standards.

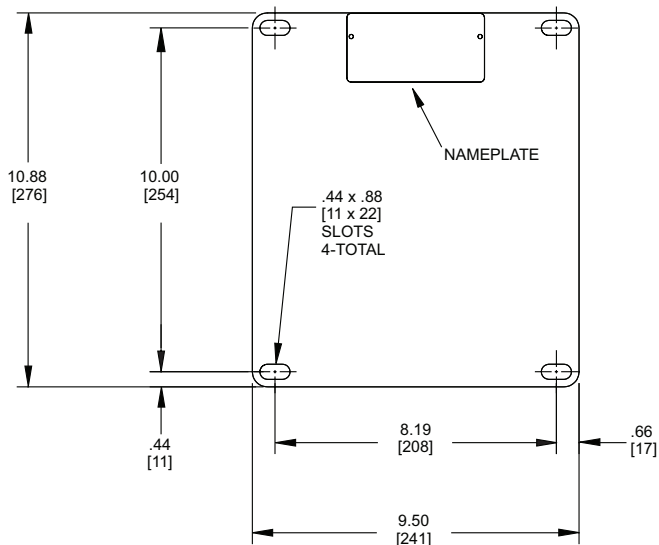
Unit dimensions



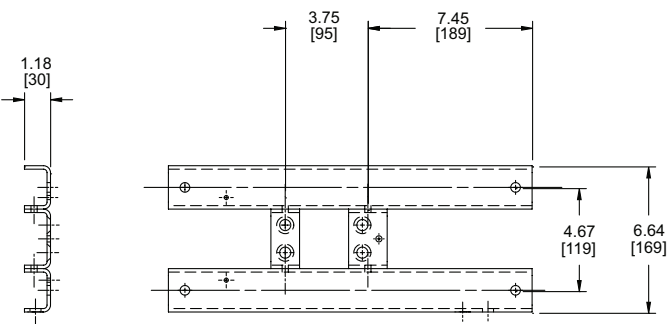
Bar dimensions

| Primary<br>ampere rating | A    |      | B    |      |
|--------------------------|------|------|------|------|
|                          | (in) | (mm) | (in) | (mm) |
| 5 - 100                  | .19  | 5    | 1.5  | 38   |
| 150 - 1200               | .375 | 10   | 2.0  | 51   |

Baseplate dimensions



Optional mounting rail dimensions



Note: Metric dimensions are displayed in [mm].

## Selection guide

| Primary amperes | Rating factor | Measuring accuracy |               | Protective accuracy |                 | Style number |              |
|-----------------|---------------|--------------------|---------------|---------------------|-----------------|--------------|--------------|
|                 |               | 50 Hz              | 60 Hz         | 50 Hz               | 60 Hz           | 50 Hz        | 60 Hz        |
| 5               | 2.0           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G01 | E-923A481G01 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 10              | 2.0           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G02 | E-923A481G02 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 15              | 2.0           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G03 | E-923A481G03 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 20              | 2.0           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G04 | E-923A481G04 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 25              | 2.0           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G05 | E-923A481G05 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 30              | 2.0           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G06 | E-923A481G06 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 40              | 2.0           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G07 | E-923A481G07 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 50              | 2.0           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G08 | E-923A481G08 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 75              | 2.0           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G09 | E-923A481G09 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 100             | 2.0           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G10 | E-923A481G10 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 150             | 2.0           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G11 | E-923A481G11 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 200             | 2.0           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G12 | E-923A481G12 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 300             | 2.0           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G13 | E-923A481G13 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 400             | 1.5           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G14 | E-923A481G14 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 600             | 2.0           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G15 | E-923A481G15 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 800             | 1.5           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G16 | E-923A481G16 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 1000            | 1.2           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G17 | E-923A481G17 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |
| 1200            | 1.0           | 15 VA, CL 0.2      | 20 VA, CL 0.2 | 20 VA, CL 5P10      | 25 VA, CL 5P10  | E-923A471G18 | E-923A481G18 |
|                 |               | 30 VA, CL 0.5      | 45 VA, CL 0.5 | 10 VA, CL 10P20     | 12 VA, CL 10P20 |              |              |

Thermal rating: 80 times normal

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

## Optional mounting accessories

The KON-17 transformer is designed for mounting on poles or substation structures, with high voltage bushings in either vertical or horizontal positions.

When mounted with high voltage bushings in a horizontal plane, it is recommended that this plane be parallel to the ground and not one bushing above the other. This precaution prevents formation of ice and snow which could cause flashover between bushings.

- Vertical mounting with mounting brackets & back-up plates:
 

|                  |            |
|------------------|------------|
| Mounting bracket | 463C035G02 |
| Back-up plate    | 28D2876G01 |
- Vertical mounting with mounting brackets and hangers:
 

|                  |            |
|------------------|------------|
| Mounting bracket | 463C035G02 |
| Hangers          | 261A233G01 |
- Vertical mounting with channel brackets for tandem mounting of voltage and current transformers:
 

|                 |            |
|-----------------|------------|
| Channel bracket | 332B955G02 |
|-----------------|------------|
- Horizontal mounting with hangers:
 

|         |            |
|---------|------------|
| Hangers | 261A233G01 |
|---------|------------|
- IEC mounting rails:
 

|  |            |
|--|------------|
|  | 50C5123G01 |
|--|------------|

For more information please contact:

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