

ACCURANGE® CURRENT TRANSFORMERS

CMV-S

High accuracy current transformer



Product features

- 600 volt, indoor or outdoor
- 10 kV BIL, 60 Hertz
- 3.5" x 4.5" (88.9 mm x 114.3 mm) oval window
- Designed for pad-mounted distribution transformer metering
- 0.15% accuracy from 1% nominal current through rating factor

Application

The CMV-S is primarily used for pad-mounted distribution transformer metering. It is designed for metering on 600 volt systems inside high ambient temperature environments up to 85°C and can be mounted directly upon the energized busbar. The CMV-S also offers protection when in contact with the mounting bolts for the bus bar by extending the window liner to the back of the transformer. For example, a single 1000:5 ratio unit will meter at 0.15% accuracy from 10 A - 2000 A for extended range metering.

Extended range metering

AccuRange current transformers deliver high accuracy and stable performance over a wide load swing, making them a great fit for variable load applications. Accuracy is guaranteed to be 0.15% from 1% of nominal

The CMV-S current transformer is primarily used for pad-mounted distribution transformer metering and delivers savings through high accuracy and reduced inventory.

current through rating factor. These units deliver savings through improved accuracy metering and reduced inventory.

Construction and insulation

The CMV-S current transformer has an oval shaped ring-type core and fully distributed winding assembled around a glass-filled polyetherimide window liner. The urethane insulating material is permanently molded to the core and coil assembly on both designs, resulting in a compact unit with improved mechanical, thermal, and dielectric characteristics.

Primary

The CMV-S has an oval primary opening to fit over the secondary spade in pad-mounted transformers.

Secondary terminals and cover

The CMV-S is supplied with embedded compression-type secondary terminals, a short circuit device, and a clear, rectangular snap-on cover suitable for locking with a meter seal. This clear plastic cover allows a visual check of connections and is keyed to ensure the shorting clip is across the terminals when no wires are connected. This safety feature avoids dangerous voltages across the secondary terminals if the

primary is energized. Terminals accommodate #14-6 wire and can also serve as a post-type connector by looping wire under the screw head.

Bus bar adapters

Bus bar adapters for attachment to the terminal spade are shipped with the unit. It may be secured to a wall panel or bracket by inserting bolts through any pair of mounting holes in the transformer body. If applicable, be sure to use the adapter, as performance is optimal when the primary conductor is centered in the window.

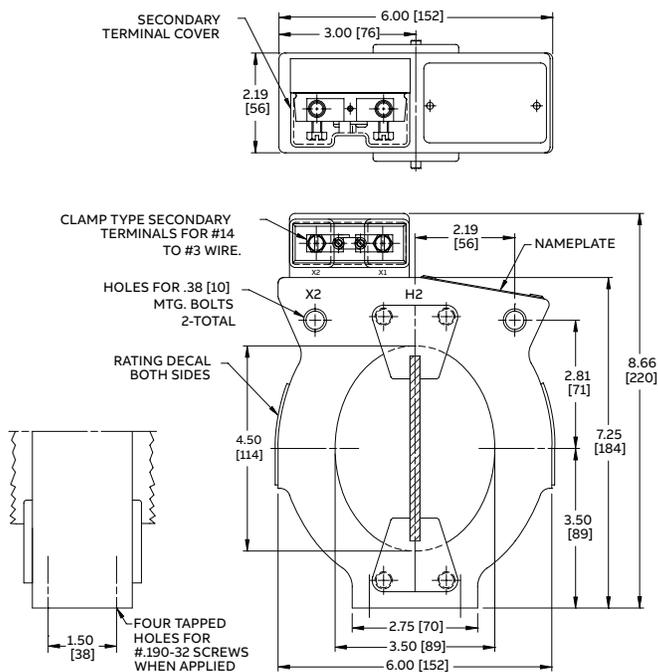
Test reports

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])



CMV-S selection guide

Primary ampere rating	Rating factor @ 85°C	Metering accuracy	Style number
500	2.0	0.15S B-0.2	923A498G04
600	2.0	0.15S B-0.5	923A498G01
1000	2.0	0.15S B-0.5	923A498G02
2000	2.0	0.15S B-0.5	923A498G03

Approximate weight: 8 lbs. (4 kg)