ACCURANGE® CURRENT TRANSFORMERS

CMF-S

High accuracy current transformer

The CMF-S current transformer is primarily used with watt-hour meters, with or without thermal demand attachments, and delivers savings through high accuracy and reduced inventory.

Product features

- 600 V, indoor or outdoor
- 10 kV BIL, 60 Hertz
- 0.15% accuracy from 1% nominal current through rating factor
- Available with window or primary bar

Application

The CMF-S transformer is primarily used with watt-hour meters, with or without thermal demand attachments, and is applicable to single or polyphase low voltage circuits.

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

Construction and insulation

The insulating material is permanently molded to the core and coil assembly, resulting in a compact unit with improved mechanical, thermal, and dielectric characteristics.

Primary

The CMF-S has a 3.06" primary opening suited for circuits requiring more than one cable lead. The large opening can accommodate the conductors required for full current capacity, even at high rating factors. The opening is large enough to accommodate four 500 MCM or three 750 MCM insulated cables. A removable primary bar can be supplied with either a slot hole or 4-hole NEMA pattern.

Secondary terminals and cover

The CMF-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 accomodate #14-6 wire and can also serve as a post-type connector by looping wire under the screw head.

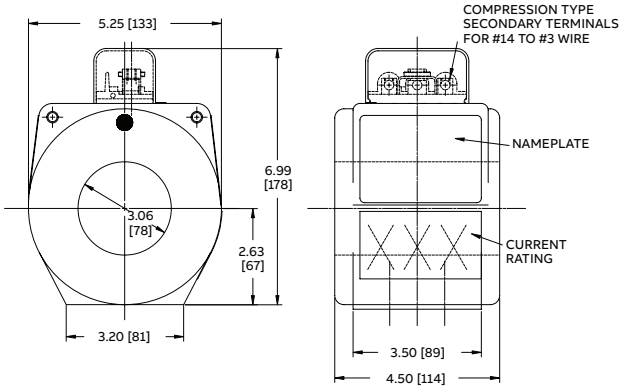
Base

The base is constructed of corrosion-resistant aluminum and secured to the encapsulated base support by four symmetrically located screws.

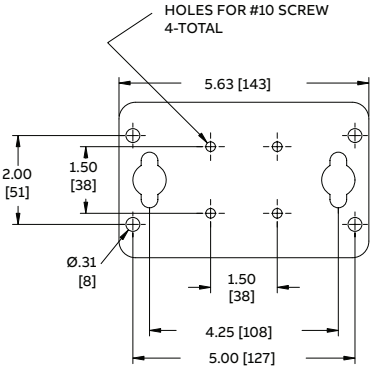
Test reports
Test reports are stored electronically and can be e-mailed in various formats at the time of shipment.

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

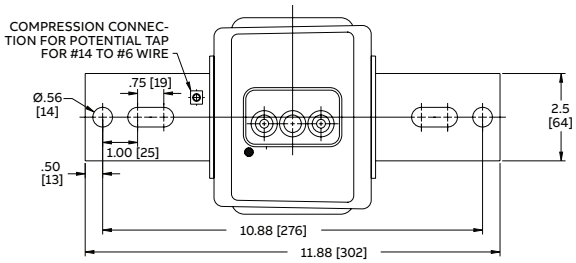
Unit dimensions (inches [mm])



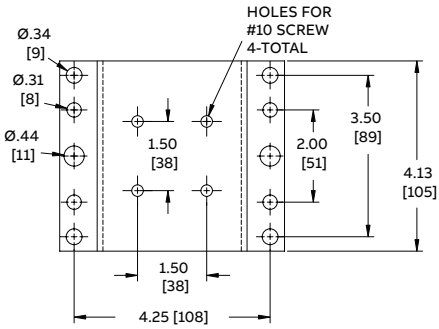
No primary bar

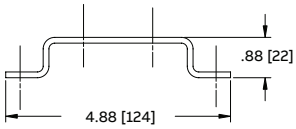


Flat base

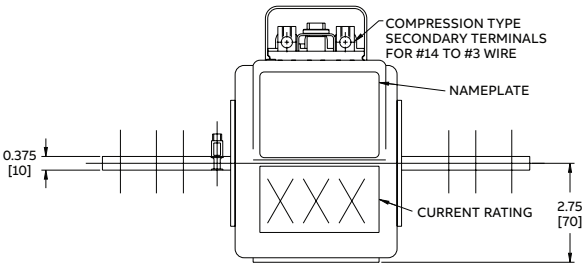


With slot hole primary bar (top view)





High base



With slot hole primary bar (slot hole, side view)

CMF-S selection guide

	Primary ampere rating	Rating factor 30° C	Rating factor 55° C	Metering accuracy	Style number Flat base	Style number High base	Approximate weight (lb.)
With primary bar* (slot hole)	600	2.0	1.5	0.15S B-0.5	923A517G01	923A517G02	10.5
	600	3.0	2.0	0.15S B-0.2	923A517G03	923A517G04	10.5
	1000	2.0	1.5	0.15S B-0.5	923A517G05	923A517G06	10.5
Without primary bar	600	2.0	1.5	0.15S B-0.5	923A497G01	923A497G02	8.5
	600	3.0	2.0	0.15S B-0.2	923A497G03	923A497G04	8.5
	1000	2.0	1.5	0.15S B-0.5	923A497G05	923A497G06	8.5

* For a 4-hole NEMA primary bar and outline drawings, contact your ABB sales representative or the factory at +1-252-827-3212.

ABB Inc.
3022 NC 43 North
Pinetops, NC 27864
Phone: +1 252 827 3212

abb.com/mediumvoltage

1VAP428182-DB Rev L April 2019