Type CMF-S
High-accuracy current transformer

Product features
- 600 V indoor or outdoor, 10 kV BIL, 60 Hertz
- Primary amperes: 600 and 1000
- Secondary amperes: 5
- Rating factor:
  2.0 for B-0.5
  3.0 for B-0.2 (for 600:5)
- Class: meets 0.15% accuracy from 1% through rating factor
- Available with primary bar and without primary bar

Application
The CMF-S transformer is used with watt-hour meters, with or without thermal demand attachments. Applicable to single or polyphase low voltage circuits, a single 600:5 ratio unit, for example, will meter at 0.15% accuracy from 6 A - 1200 A for extended range metering.

The CMF-S is part of ABB's AccuRange® current transformer portfolio, transformers that reduce inventory requirements and significantly improve metering accuracy. These units are especially important for metering installations with large variable loads in commercial and industrial applications.

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

Secondary terminals and cover
Large compression-type secondary terminals are supplied with 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 a short circuit device to ensure proper installation. Terminals 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.

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.

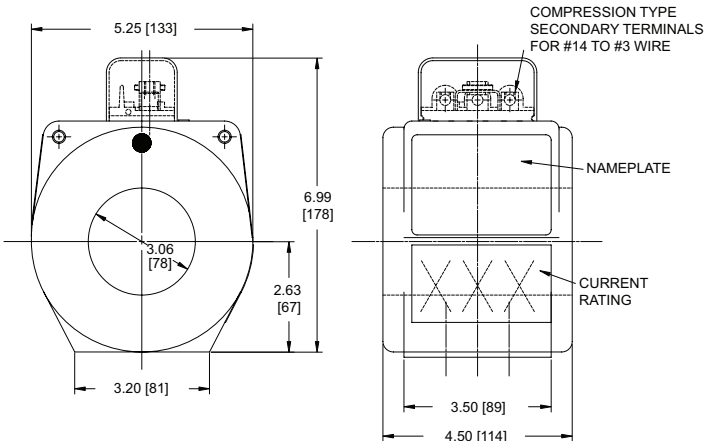
Primary
The CMF-S has a 3.06" primary opening suited for circuits requiring more than one cable lead. The large opening can accommodate the conductors required for full current capacity, even at high rating factors. The opening is large enough to accommodate four 500 MCM or three 750 MCM insulated cables.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

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

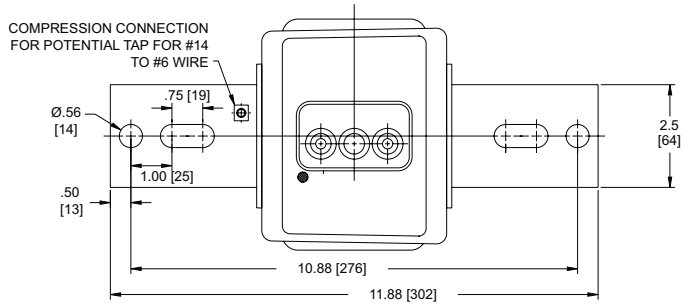
Standards
This unit can be tested to all applicable IEEE, CSA, or IEC standards as requested. This unit is tested in accordance with IEEE C57.13.6-2005 for high accuracy instrument transformers.

Dimensions

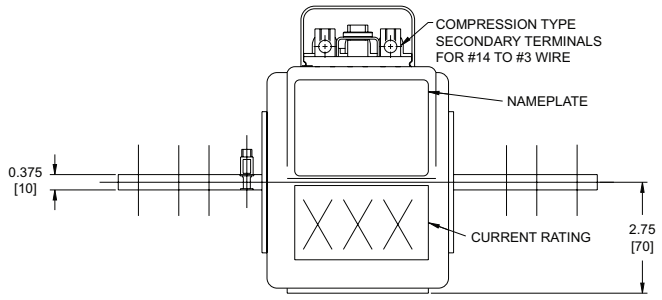
Note: dimensions are in inches and [mm].



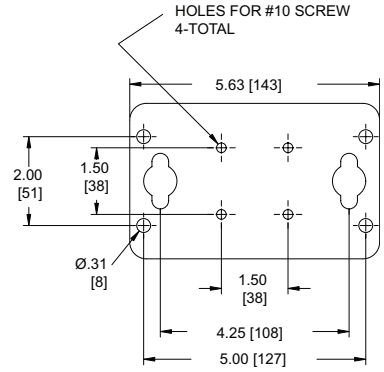
Type CMF-S (approximate weight 8.5 lbs)



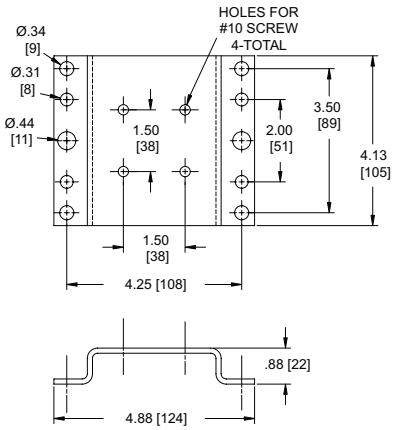
Bar-type (top view) (approximate weight 10.5 lbs)



Bar-type (side view)



Flat base



High base

Selection guide

Primary ampere rating	Rating factor 30°C	Rating factor 55°C	IEEE metering accuracy	Style number Flat base	Style number High base
No primary bar					
600	2.0	1.5	0.15S B-0.5	923A497G01	923A497G02
600	3.0	2.0	0.15S B-0.2	923A497G03	923A497G04
1000	2.0	1.5	0.15S B-0.5	923A497G05	923A497G06
With primary bar					
600	2.0	1.5	0.15S B-0.5	923A517G01	923A517G02
600	3.0	2.0	0.15S B-0.2	923A517G03	923A517G04
1000	2.0	1.5	0.15S B-0.5	923A517G05	923A517G06

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