

ACT - AMS

Moulded Case Current Transformers



Introduction

Autometers' moulded case transformers incorporate the latest "C-Tec" technology in transformer design. The easy to fix design and the three ranges of current transformers allow selection for almost any cable or busbar system.

- 2 Ranges: ACT and AMS
- 5 Frame Sizes in each range
- High-impact, flame-retardant (UL94V-1) moulded cases suitable for mounting on 1050 busbars
- 5 amp secondary current
- Primary currents 50 amps to 4000 amps
- Choice of mounting arrangements
- Choice of termination connections
- Terminal cover standard on all frame sizes
- Clip in mounting feet as standard on all sizes
- High visibility colour

Applications

Autometers' current transformers are intended to measure current in the range of 50 to 4000 amps. Their accuracy allows operation within the range of 5% to 120% of their rated primary current; this accuracy is dependent on the load connected to the secondary terminals of the current transformer. The load, which includes both the impedance of the connected measuring instrument and the connecting cables, is expressed in VA (VoltAmps) where "A" is the rated secondary output current and "V" is the voltage required for this current to flow.



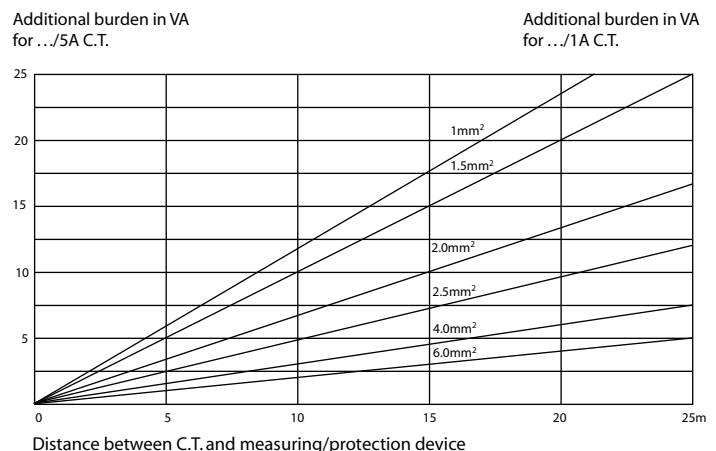
Summary of Performance Data

- Designed to comply with BSEN60044-1:1999, IEC 60044-1:2003
- Temperature range -200C to +700C ambient
- Dielectric strength 2.5kV for 1 min
- Nominal Frequency 50.60Hz
- Rated Voltage: 660V max
- Short circuit thermal current (Ith) 40x rated primary current for 1 second
- Rated dynamic current (1 dyn) – 2.55xIth
- Degree of protection (IP40) (IP44 min)

Burden Chart for Cable Connections

The chart below gives the approximate additional burden of connection cables for current transformer secondary wiring.

The burden VA takes care of the entire cable run, i.e. from the CT to the device and back to the CT.



Important.

The attention of the specifier, purchaser, installer or user is drawn to special measures and limitations to use, which must be observed when these products are taken into service to maintain compliance with the CE directives. Details of these special measures and limitations of use are available from HMSO.

REF: IEC 1000-5-1(B5195/210788DC) IEC 1000-5-2 (BS 195/214642DC)
IEC 10000-5-6 (BS 195/210789DC).

Product development is continuous and Autometers Systems Ltd reserves the right to make alterations and manufacture without notice. Products as delivered may therefore differ from the descriptions and illustrations in this publication.



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AMS Range of Current Transformers

NB Illustrations are not to scale.

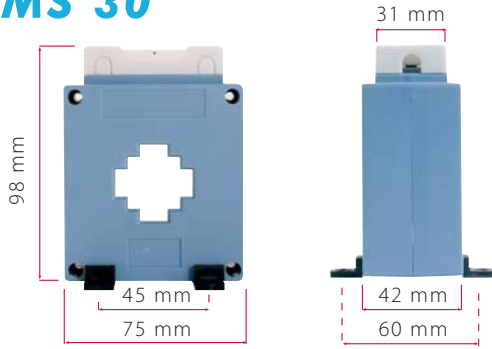
Technical Data

Class 1.0

600 Volt

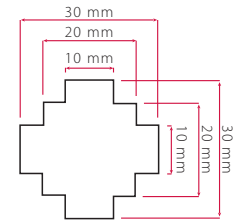
50 - 60 Hz

AMS 30

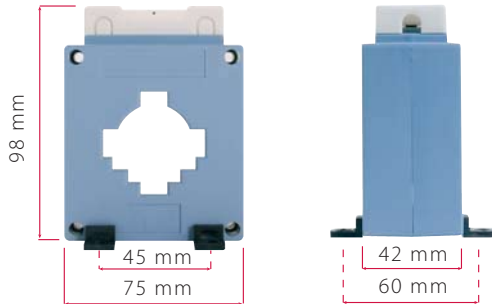


50/5	Amp	2.5 VA
100/5	Amp	2.5 VA
150/5	Amp	5.0 VA
200/5	Amp	5.0 VA
250/5	Amp	5.0 VA
300/5	Amp	5.0 VA

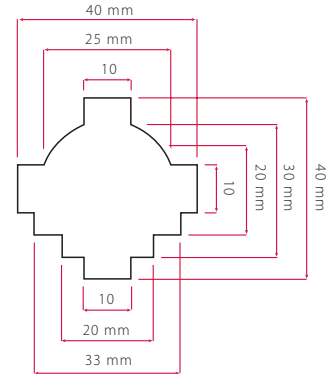
Inside Dimensions



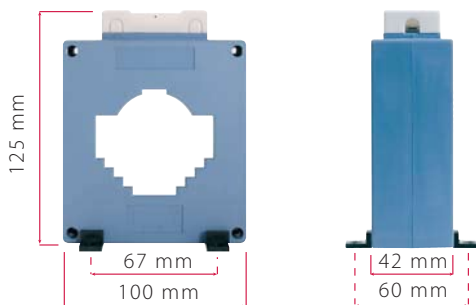
AMS 40



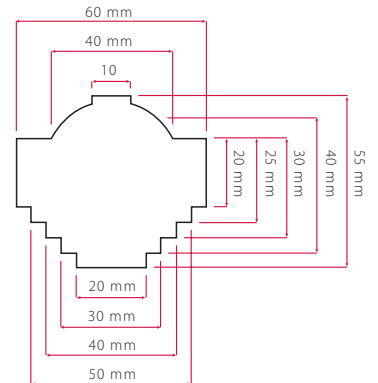
150/5	Amp	5.0 VA
200/5	Amp	5.0 VA
250/5	Amp	5.0 VA
300/5	Amp	5.0 VA
400/5	Amp	5.0 VA
500/5	Amp	5.0 VA



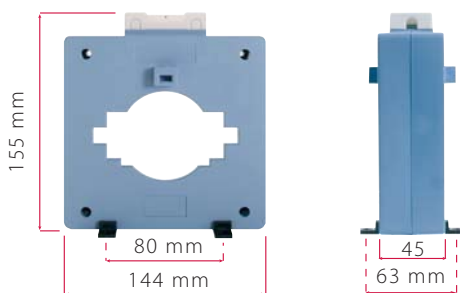
AMS 60



400/5	Amp	10.0 VA
500/5	Amp	10.0 VA
600/5	Amp	10.0 VA
800/5	Amp	10.0 VA
1000/5	Amp	10.0 VA
1200/5	Amp	10.0 VA

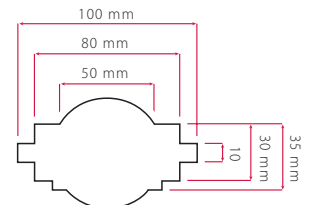


AMS 100

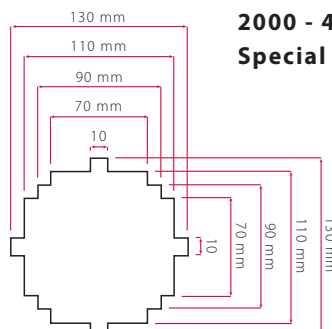
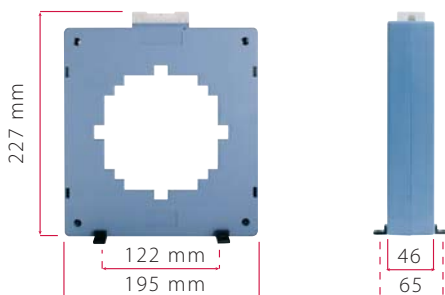


800/5	Amp	15.0 VA
1000/5	Amp	15.0 VA
1200/5	Amp	15.0 VA
1500/5	Amp	15.0 VA
1600/5	Amp	15.0 VA
2000/5	Amp	15.0 VA

Inside Dimensions

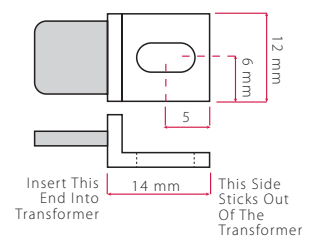


AMS 130



2000 - 4000 Amp on Special Request

Standard Plastic Foot For Each Transformer



ACT Range of Current Transformers

NB Illustrations are not to scale.

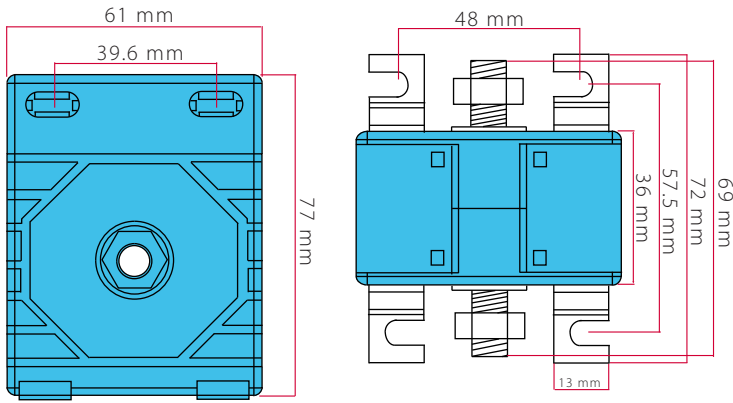
Technical Data

Class 1.0

660 Volt

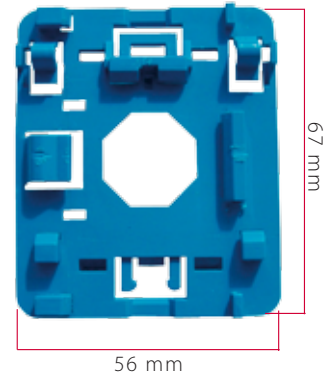
50 - 60 Hz

ACT DC (Direct Connected)

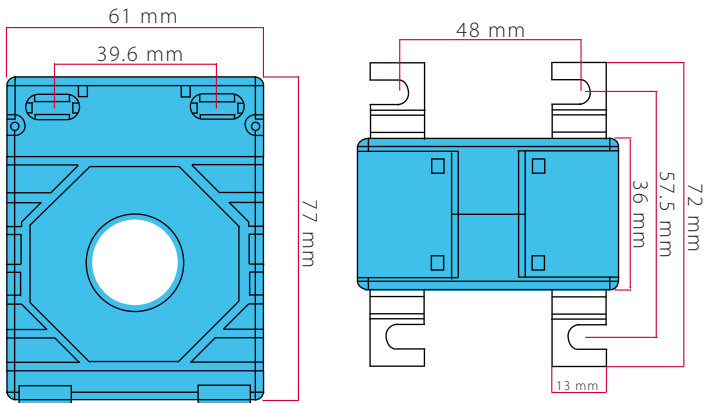


30/5	Amp	1.5 - 2.5 VA
50/5	Amp	1.5 - 2.5 VA
100/5	Amp	1.5 - 2.5 VA

Picture showing New plastic Din Rail bracket for attaching current transformers to a 35mm Din Rail, can be used in either direction for mounting.

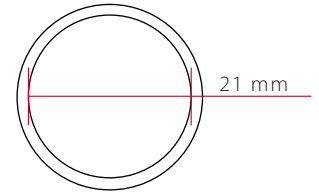


ACT 20

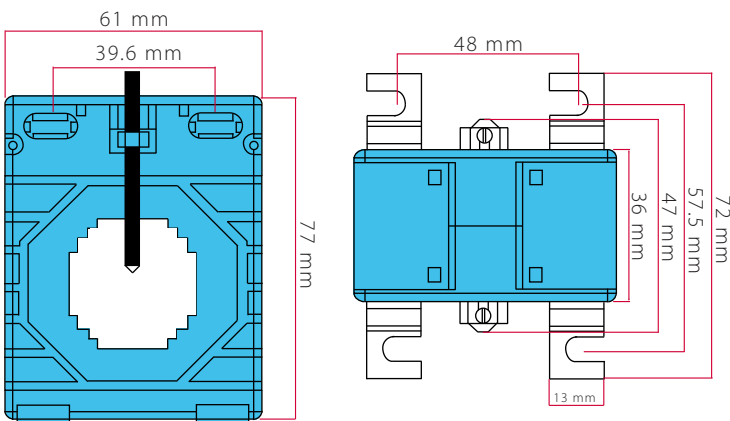


100/5	Amp	2.5 VA
150/5	Amp	2.5 VA
200/5	Amp	2.5 VA

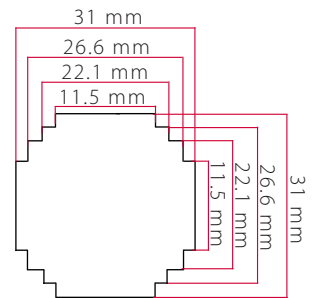
Inside Dimensions



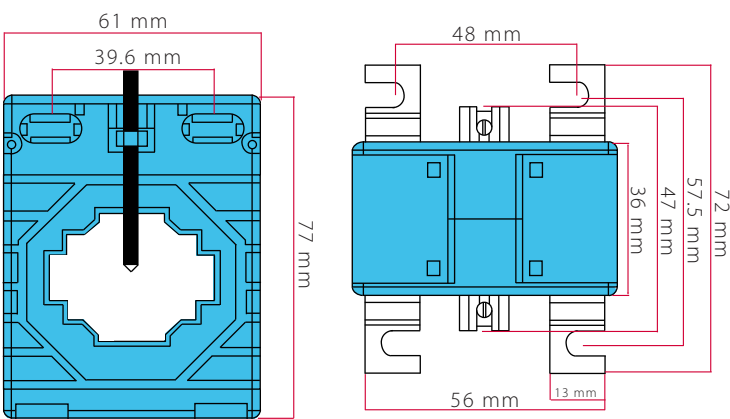
ACT 30



100/5	Amp	2.5 - 5.0 VA
150/5	Amp	2.5 - 5.0 VA
200/5	Amp	2.5 - 5.0 VA
300/5	Amp	2.5 - 5.0 VA
400/5	Amp	2.5 - 5.0 VA



ACT 40



300/5	Amp	2.5 - 5.0 VA
400/5	Amp	2.5 - 5.0 VA
500/5	Amp	2.5 - 5.0 VA
600/5	Amp	2.5 - 5.0 VA

