

Technical Specifications

Safety and environmental conditions

CE marking	LV directive 2014/35/EU RoHS directive (EU) 2015/863 EN 61010-1:2010
Standard	WEEE directive 2012/19/EU

This product is designed to be safe under the following conditions:

Location:	Indoor use
Ambient temperature:	-5 °C .. +40 °C
Relative humidity:	5 %..85 %, non condensing
Degree of protection:	IP20

Specifications

Standard:	IEC 61869-2:2012
Rated short-time thermal current (I _{th}):	60 x I _n /1 s
Continuous thermal current (I _{cth}):	100 %
Rated insulation level:	0,72/3/- kV
Rated frequency:	50/60 Hz
Class of insulation:	E

Primary conductor dimensions by type

	SVA150-B-50 SVA150-D-50	SVA150-B-60 SVA150-D-60
Primary conductor cable dimensions	Ø 50 mm	Ø 60 mm
Primary conductor rail dimensions	Depending on rail configuration	Depending on rail configuration

Please be aware, product liability, fulfilment to requirements and warranty are all expired when modifications on the product are made.

ELEQ reserves the right to carry out modifications on its products, in order to improve them, without prior notice.

Safety instruction

All activities for installation, commissioning and maintenance of this current transformer must be performed by qualified personnel that have knowledge of applicable safety precautions. This guide assumes that the reader of this document has sufficient electro-technical knowledge to understand the content of this document.

General

The SVA is a current transformer (CT) and can only be used measuring electrical alternating currents. The SVA is suitable for mounting on (insulated) primary conductors in a weather protected and dry location.

Explanation of symbols



This product is designed according to the EN-IEC 61010-1:2010 standards and therefore this product meets the requirements of the Low Voltage Directive 2014/35/EU.



Read the installation guide before mounting the product. Unprofessional work activities on electrical installations may result in a threat of danger to the life and health of human beings and livestock!



Under no circumstances the secondary circuit of the CT may be opened when the CT is mounted and current is flowing in the primary circuit. High voltages may appear on the secondary terminal when this circuit is left open.



RoHS Directive (EU) 2015/863

ELEQ states that they only uses qualified components in their products from manufacturers, whose specifications meet or exceed the requirements of the European Directive for the Restriction of use of certain Hazardous Substances.



WEEE Directive 2012/19/EU

The 'crossed out wheeled bin' symbol indicates that the equipment should not be disposed as unsorted municipal waste. Contact a qualified recycler for disposal.



SVA150 Current transformer Installation Guide



SVA150-B-50
SVA150-B-60
SVA150-D-50
SVA150-D-60

*Read this installation guide before installing
the product*

Always avoid working on live parts of an installation.



Warning: Before performing any installation or maintenance work, ensure that the cabinet containing the product is completely de-energized and switched off. Performing installation or maintenance on energized equipment is extremely dangerous and may result in serious injury or death.

Mounting instruction

To install an SVA series transformer, you will need a flat-head or Phillips screwdriver. For the correct connection of the transformer to the meter, refer to the meter's installation manual.

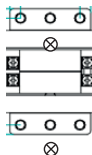
Assembly

Under no circumstances the secondary circuit of the CT may be opened when the CT is mounted and current is flowing in the primary circuit. High voltages may appear on the secondary terminals when this circuit is left open.

1. Ensure a safe working area during assembly, maintenance and inspection of the CT. Disconnect the power of the primary circuit and make sure it can not be enabled unintentionally.
2. Find the power direction of the bus bar or cable you want to measure. It is recommended to mount P1 side to power source and P2 side to power consumer. If the CT is installed like this, the arrow on the CT will indicate the direction of the power flow.

3. Mount the CT around the cable or busbar:

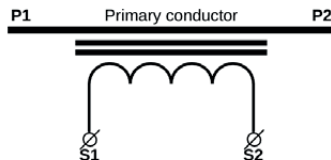
- Position the transformer at the desired installation location and secure it using the mounting brackets.
- Hand tighten the screws to install the product (2 Nm).



4. Connect the CT output (S1, S2) to the low impedance current input of the measurement instrument (e.g., an ammeter or current input of kWh-meter).
5. Seal the CT if necessary.
6. Check if the CT is mounted properly.
Check if the wires are connected properly and firmly.

7. Enable the primary circuit if necessary.

Wiring Diagram



Note: The wiring diagram may vary depending on the SVA model. Always verify that the correct number of secondary terminals is available for the intended application.

Maintenance and inspection

- Check whether the wires are connected firmly.
- Check whether the CT is mounted firmly.
- Remove severe pollution on the casing.

Temporarily disconnecting the CT

The secondary terminals of the CT must always be connected to a low impedance burden such as an ammeter. When during maintenance no burden (e.g. measuring instrument) is available to connect to, the two secondary terminals must be short-circuited.

Problem solving

e.g. unexpected or incorrect values, reversed power;

- Check the settings of the meter by using the installation guide of the meter.
- Check if the CT is mounted on the intended bus bar or cable in the right direction.
- Check the value of the secondary burden (secondary leads length/diameter and meter dependent). See product sheet for the maximum burden value.

Attention

Always follow the disassembling instructions when reversing the CT.

Disassembly instruction

To remove the transformer, you will need a flat-head or Phillips screwdriver.

1. Ensure a safe working area during disassembling the CT.
Disconnect the power of the primary circuit and make sure it cannot be enabled unintentionally.
2. Disconnect the wires from the CT.
3. Turn both threaded rods up.

Recycling

When the product has reached 'end of life', it must be recycled. Do not dispose of this product as unsorted municipal waste. Contact a qualified recycler for disposal.