

PRODUCT DATASHEET

STSC Series

Split core current transformers



PRODUCT OVERVIEW

The STSC range uses a quick-release split core for installation around existing cables or busbars without disconnecting the primary conductor. A wide choice of window sizes and capacities supports current measurement and protection across power applications.

FEATURES

- One-button clamp-on design
- Base or busbar mounting
- Wide cable and busbar windows
- Primary current from 5 A to 5000 A

APPLICATIONS

Current, power and energy monitoring; relay protection; electrical equipment, motors, lighting, compressors, HVAC and automation systems.

Follow the installation precautions on page 2.

Technical data

Electrical and mechanical parameters

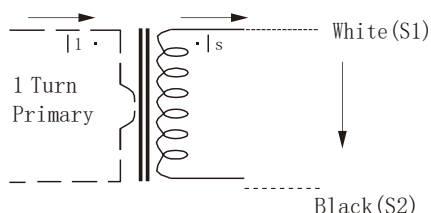
ELECTRICAL PARAMETERS

Parameter	Value
Frequency	50-400 Hz
Rated input	5-5000 A
Measuring range	5% I_n -130% I_n
Rated output	0-5 A
Ratio	$\leq \pm 0.5\%$
Phase angle	$\leq \pm 30$ min
Dielectric strength	2.5 kV / 1 mA / 1 min
Insulation resistance	DC 500 V / 100 M Ω min

MECHANICAL PARAMETERS

Parameter	Value
Case	PC / UL94-V0
Bobbin	PBT
Core	Silicon steel
Internal structure	Epoxy
Construction	Screw
Operating temperature	-25°C to +75°C
Operating humidity	$\leq 85\%$
Output connection	Terminal

CIRCUIT CONNECTION

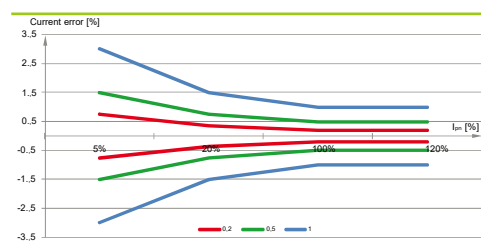


REFERENCED STANDARDS

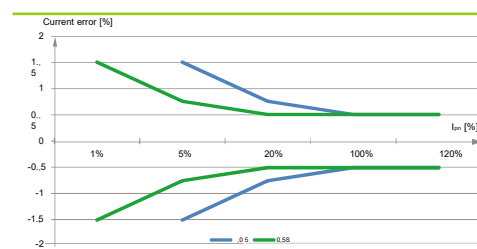
IEC6044-1, EN60044-1,
VDE0414-44-1, GB1208-2006

ACCURACY CLASS CHARACTERISTICS

a) classes 0.2; 0.5; 1



b) comparison of classes 0.5 and 0.5S



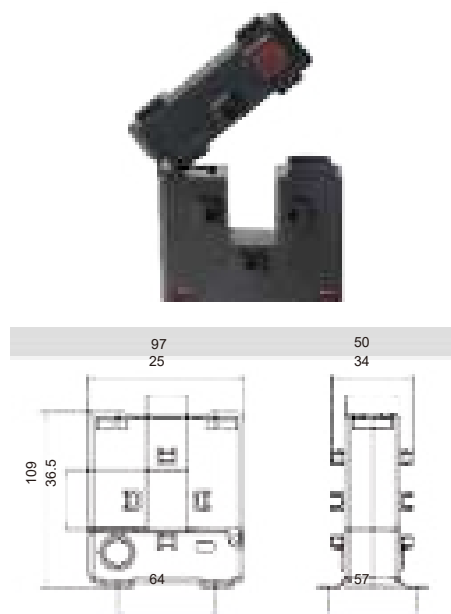
INSTALLATION CAUTION

Installation must be carried out by a licensed professional. Never energize the primary unless the secondary terminals are short-circuited or connected to a burden.

Model specifications

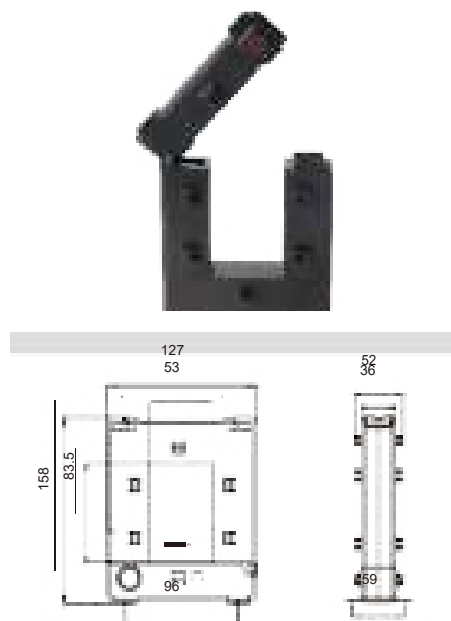
Burden by accuracy class / Overall and installation dimensions in mm

STSC23



Current ratio (A)	Class 0.5 (VA)	Class 1.0 (VA)
100/5 A	–	2.5
150/5 A	–	2.5
200/5 A	2.5	3.75
250/5 A	3.75	3.75
300/5 A	5	5
400/5 A	5	5

STSC58



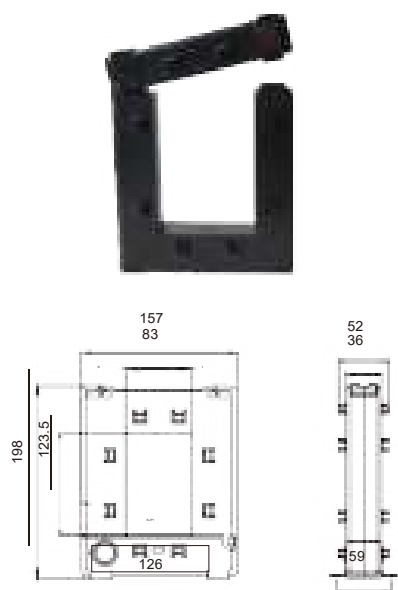
Current ratio (A)	Class 0.5 (VA)	Class 1.0 (VA)
250/5 A	–	2.5
300/5 A	2.5	2.5
400/5 A	3.75	5
500/5 A	5	5
600/5 A	5	5
750/5 A	7.5	7.5
800/5 A	7.5	7.5
1000/5 A	10	10

A dash indicates no burden value listed in the source.

Model specifications

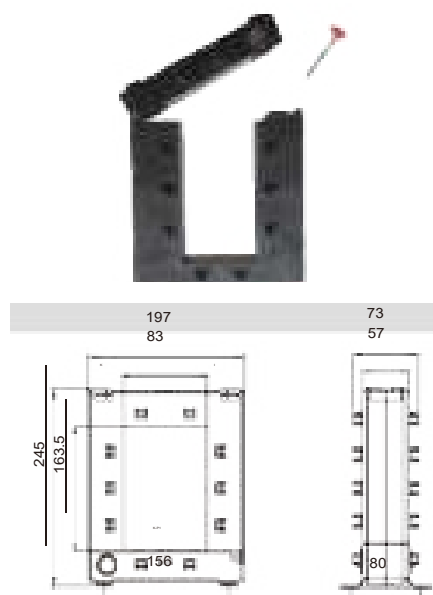
Burden by accuracy class / Overall and installation dimensions in mm

STSC812



Current ratio (A)	Class 0.5 (VA)	Class 1.0 (VA)
500/5 A	2.5	5
600/5 A	2.5	5
750/5 A	5	5
800/5 A	5	5
1000/5 A	5	5
1200 A	7.5	10
1250 A	7.5	10
1500 A	10	10
1600 A	10	10
2000 A	10	15
2500 A	10	15

STSC816



Current ratio (A)	Class 0.5 (VA)	Class 1.0 (VA)
1000/5 A	10	15
1200 A	10	15
1500 A	10	15
1600 A	10	15
2000 A	10	15
2500 A	10	15
3000/5 A	15	30
4000/5 A	15	30
5000/5 A	15	30

Current entries are reproduced as supplied. Several entries specify amperes only; their secondary ratio is not stated in the source table.