

100A TO 5000A PRIMARY
5A OR 1A SECONDARY
CLASS 0.5 - 1.0 - 3.0
AS 61869.2
0.72/3kV INSULATION
5 WINDOW SIZES
NATA CERTIFICATION AVAILABLE
[View the SCT-DP product page on satec-global.com.au](https://www.satec-global.com.au)

SCT-DP Split Core Current Transformers

Split Core Current Transformers for Retrofit Energy Metering

SCT-DP split core current transformers are designed for fast installation in new and existing low voltage networks. The core opens so the transformer can be fitted around an existing cable or busbar without disconnecting the primary conductor. This suits retrofit energy metering, sub-metering and power monitoring projects where a shutdown is costly or impractical.

Five window sizes cover primary currents from 100A to 5000A with a 5A or 1A secondary. Accuracy Class 0.5, 1.0 and 3.0 are available depending on ratio and burden, with rated outputs from 1.5VA to 30VA. Busbar centring devices hold the conductor in position and the range is designed to IEC 61869-2 and AS 61869.2.



SCT-DP-23

Compact 20 × 30mm window for cables. Ratios 100/5A to 400/5A.

SCT-DP-58 & SCT-DP-88

50 × 80mm and 80 × 80mm windows. Ratios 250/5A to 1000/5A.

SCT-DP-812 & SCT-DP-816

80 × 120mm and 80 × 160mm windows for busbars. Ratios 500/5A to 5000/5A.

Main Features

- Split core design fits around existing cables and busbars
- No need to disconnect the primary conductor to install
- Primary currents from 100A to 5000A
- 5A or 1A secondary output
- Accuracy Class 0.5, 1.0 or 3.0 (subject to burden)
- Rated output from 1.5VA to 30VA
- Five window sizes from 20 × 30mm to 80 × 160mm
- Busbar centring devices for secure positioning
- Insulation level 0.72/3kV
- Short time thermal current $I_{th} = 100 \times I_n$
- Instrument security factor $FS < 5$
- Suitable for 50Hz and 60Hz networks
- Designed to IEC 61869-2 and AS 61869.2
- NATA certification available on application

Feature Capabilities

Split Core Retrofit Installation

- Core opens and closes around the existing conductor
- No need to disconnect cables or busbars to fit the CT
- Avoids the primary circuit interruption that conventional CTs require
- Saves installation time and cost on switchboard upgrades
- Ideal for adding metering to sites already in service

Wide Window Range

- SCT-DP-23: 20 × 30mm window
- SCT-DP-58: 50 × 80mm window
- SCT-DP-88: 80 × 80mm window
- SCT-DP-812: 80 × 120mm window
- SCT-DP-816: 80 × 160mm window for large busbars

Metering Accuracy

- Accuracy Class 0.5, 1.0 and 3.0 depending on ratio and burden
- Rated output from 1.5VA to 30VA
- Higher ratios support higher burdens for longer secondary runs
- Select ratio, class and VA from the ratings tables on page 5
- Learn more: [CT ratio, class and burden explained](#)

Busbar Centring and Mounting

- Centring devices hold the busbar in the middle of the window
- Removable core section secured with fixing screws
- Base fixing holes for secure mounting
- Suits both cable and busbar installations



Safety and Protection

- Insulation level 0.72/3kV
- Short time thermal current $I_{th} = 100 \times I_n$
- Instrument security factor $FS < 5$ helps protect connected meters during faults
- Never open circuit the secondary while the primary is energised
- Installation by a qualified electrician to site safety procedures

Standards and Certification

- Designed to IEC 61869-2 and AS 61869.2
- Also listed to IEC 60044-1, AS 60044.1 and BS 7626
- NATA certification available on application
- Read about [AS 61869 metering current transformers](#)

Typical Applications

- Retrofit sub-metering in commercial buildings
- Energy monitoring upgrades in industrial plants
- Data centre and critical power monitoring
- Water, wastewater and council infrastructure
- Sites where a shutdown is not practical

Complete SATEC Metering System

- Pairs with SATEC power meters and energy meters
- Meter data can be viewed and managed in the Expertpower platform
- Explore the full [SATEC current transformer range](#)
- New installations: [CT-MES solid core CTs](#)
- High accuracy options: [HACS current sensors](#)

Specifications

ELECTRICAL	
Primary current	100A to 5000A
Secondary current	5A or 1A
Frequency	50Hz / 60Hz
Insulation level	0.72/3kV
Short time thermal current	I _{th} = 100 × I _n

ACCURACY AND OUTPUT	
Accuracy class	0.5, 1.0, 3.0 (subject to burden)
Rated output	1.5VA to 30VA
Instrument security factor	FS < 5
Design standard	IEC 61869-2, AS 61869.2

CONSTRUCTION	
Core type	Split core
Window sizes	20 × 30mm to 80 × 160mm
Overall size	89 × 111mm to 184 × 245mm
Weight	0.75kg to 4.30kg
Busbar centring	Centring devices included

INSTALLATION AND CERTIFICATION	
Installation	Around existing cable or busbar
Fixing	Base fixing holes
Primary disconnection	Not required
NATA certification	Available on application

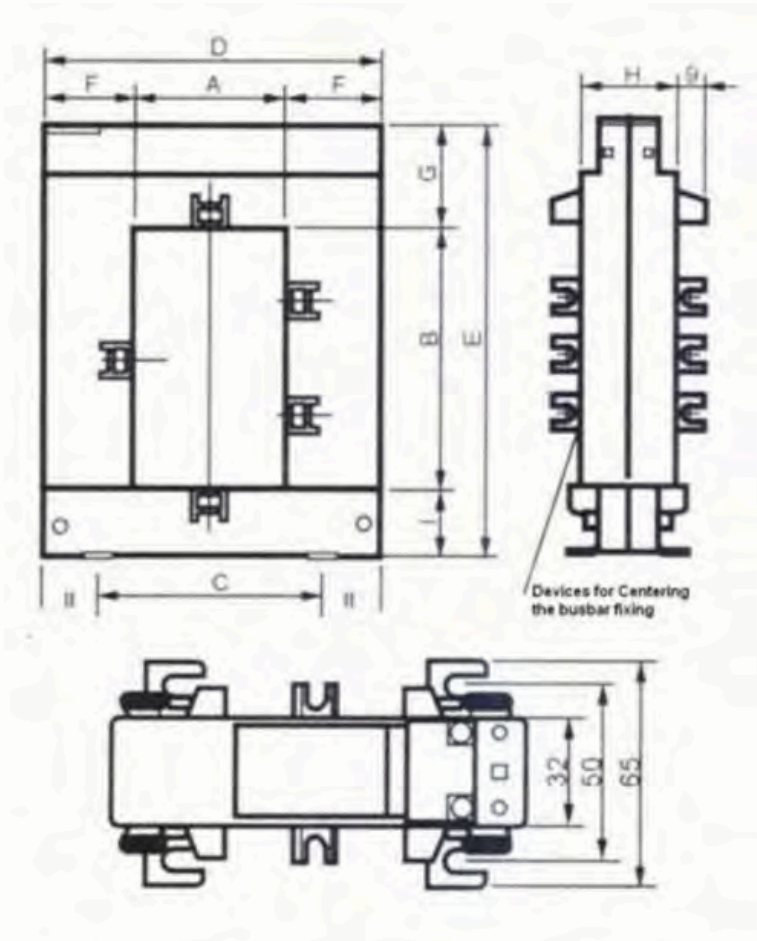
Model Overview

Model	Window A × B (mm)	Ratio range (A)	Accuracy classes	Rated output (VA)	Overall D × E (mm)	Weight (kg)
SCT-DP-23	20 × 30	100/5 to 400/5	0.5, 1.0, 3.0	1.5 to 5	89 × 111	0.75
SCT-DP-58	50 × 80	250/5 to 1000/5	0.5, 1.0	2.5 to 5	114 × 145	0.90
SCT-DP-88	80 × 80	250/5 to 1000/5	0.5, 1.0	2.5 to 10	144 × 145	1.05
SCT-DP-812	80 × 120	500/5 to 3000/5	0.5, 1.0	2.5 to 20	144 × 185	1.25
SCT-DP-816	80 × 160	1000/5 to 5000/5	0.5, 1.0	10 to 30	184 × 245	4.30

Ratio ranges shown for 5A secondary. For 1A secondary ratings please contact SATEC. Dimensions in mm.

Dimensions

All SCT-DP models share the same construction. Window $A \times B$ sets the largest cable or busbar the transformer will accept. Dimensions are in millimetres.



Model	A	B	C	D	E	F	G	H	I	Weight (kg)
SCT-DP-23	20	30	51	89	111	34	47	40	32	0.75
SCT-DP-58	50	80	78	114	145	32	32	32	33	0.90
SCT-DP-88	80	80	108	144	145	32	32	32	33	1.05
SCT-DP-812	80	120	108	144	185	32	32	32	33	1.25
SCT-DP-816	80	160	120	184	245	52	47	52	38	4.30

$A \times B$ = window (aperture). $D \times E$ = overall width and height. Side and top view dimensions H, I, 32, 50 and 65 as per drawing.

Ratings

Rated output in VA for each ratio and accuracy class with a 5A secondary. n/a means the class is not offered at that ratio.



SCT-DP-23

Ratio (A)	Rated output (VA) by accuracy class		
	Class 0.5	Class 1.0	Class 3.0
100/5	n/a	n/a	2.5
150/5	n/a	1.5	n/a
200/5	n/a	2.5	n/a
250/5	n/a	2.5	n/a
300/5	5	n/a	n/a
400/5	5	n/a	n/a



SCT-DP-58

Ratio (A)	Rated output (VA) by accuracy class		
	Class 0.5	Class 1.0	Class 3.0
250/5	n/a	2.5	n/a
300/5	n/a	2.5	n/a
400/5	2.5	n/a	n/a
500/5	5	n/a	n/a
600/5	5	n/a	n/a
750/5	5	n/a	n/a
800/5	5	n/a	n/a
1000/5	5	n/a	n/a



SCT-DP-88

Ratio (A)	Rated output (VA) by accuracy class		
	Class 0.5	Class 1.0	Class 3.0
250/5	n/a	2.5	n/a
300/5	2.5	n/a	n/a
400/5	2.5	n/a	n/a
500/5	2.5	n/a	n/a
600/5	5	n/a	n/a
750/5	5	n/a	n/a
800/5	5	n/a	n/a
1000/5	5	10	n/a



SCT-DP-812

Ratio (A)	Rated output (VA) by accuracy class		
	Class 0.5	Class 1.0	Class 3.0
500/5	2.5	10	n/a
600/5	2.5	10	n/a
750/5	2.5	10	n/a
800/5	2.5	10	n/a
1000/5	5	15	n/a
1200/5	7.5	20	n/a
1250/5	7.5	20	n/a
1500/5	10	20	n/a
1600/5	10	20	n/a
2000/5	10	20	n/a
2500/5	15	20	n/a
3000/5	20	20	n/a



SCT-DP-816

Ratio (A)	Rated output (VA) by accuracy class		
	Class 0.5	Class 1.0	Class 3.0
1000/5	10	20	n/a
1500/5	15	25	n/a
2000/5	15	25	n/a
2500/5	15	25	n/a
3000/5	20	30	n/a
4000/5	20	30	n/a
5000/5	20	30	n/a

Standards Compliance

Instrument Transformers

- IEC 61869-2: Additional requirements for current transformers
- AS 61869.2: Australian adoption of IEC 61869-2

Legacy Standards

- IEC 60044-1: Instrument transformers, current transformers
- AS 60044.1: Current transformers
- BS 7626: Specification for current transformers

Certification

- NATA certification available on application
- Accuracy class subject to rated burden

Insulation and Thermal

- Insulation level 0.72/3kV
- Short time thermal current $I_{th} = 100 \times I_n$
- Instrument security factor $FS < 5$

Ordering Information

MODEL	RATIO	CLASS	RATED OUTPUT	OPTIONS
MODEL		ACCURACY CLASS		
20 × 30mm window	SCT-DP-23	Class 0.5	0.5	
50 × 80mm window	SCT-DP-58	Class 1.0	1.0	
80 × 80mm window	SCT-DP-88	Class 3.0 (SCT-DP-23 only)	3.0	
80 × 120mm window	SCT-DP-812			
80 × 160mm window	SCT-DP-816			
RATIO		RATED OUTPUT		
Primary 100A to 5000A	e.g. 600	Per ratings table, page 5	1.5VA to 30VA	
Secondary 5A	/5	OPTIONS		
Secondary 1A (contact SATEC)	/1	NATA certification	On application	

Ordering example: SCT-DP-58 • 600/5 • Class 0.5 • 5VA



Place an Order

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Document Revision History	
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