

Φ16mm Aperture Split core current transformer



HYDC SCT016S 50A Split Core Current Transformer User Guide

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HYDC SCT016S 50A Split Core Current Transformer



Specifications

- **Model:** SCT016S
- **Input Current:** 50A – 200A
- **Output:** 100mA
- **Turns Ratio:** 1100 – 14000
- **Load Resistance:** 5 – 10
- **Accuracy:** 0.5% – 1%
- **Linearity:** 1%
- **Weight:** 85g

OVERVIEW

Φ16mmAperture Split core current transformer



Front view



Opening view



Bottom view

Characteristic

- Safety lock buckle, easy to install
- Built-in over-voltage protection device (TVS tube)
- Lead type output and length can be customized
- Suspended type

Product application

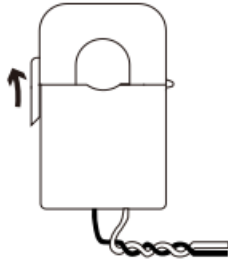
- Portable instrument
- Household metering
- Monitor motor load

Product advantage

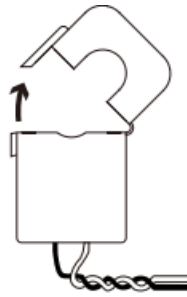
- Small volume, lightweight
- Low cost
- High turns, high precision

Installation diagram

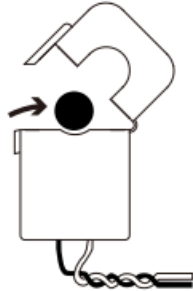
Primary threading method Firing line



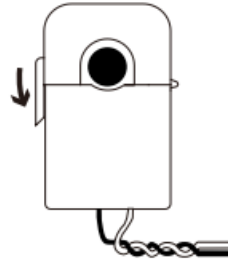
1. Open the buckle



2. Open upward



3. Put in lead wire



4. Fasten the buckle

Typical technical index

- **Material of core**——Silicon steel sheet
- **Working voltage**——Phase voltage $\leq$ 720V
- **Working temperature**——25°C +60°C
- **Storage temperature**——30°C +90°C
- **Frequency range**——50Hz 60Hz
- **Dielectric strength**——Input bare conductor /output AC 800V/1min 5mA 50Hz Output/Outer shell AC 3.5KV/1min 5mA 50Hz

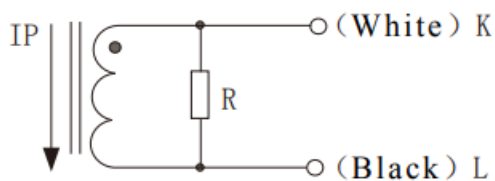
Electrical parameters: The following parameters are typical values and actual values will be subject to product testing

Max. continuous input current: 120% of rated input

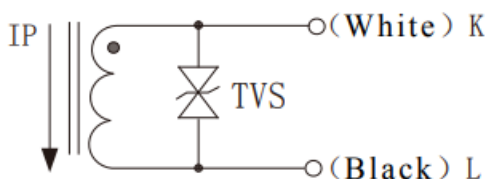
Model	Input current		Output	Turns ratio	Load resistance	Accuracy	Linearity	Weight
SCT016S		50A	100mA	1:100	5Ω	1%	1%	85g
SCT016S		100A	100mA	1:1000	5Ω	0.5%/1%	1%	85g
SCT016S		120A	40mA	1:3000	10Ω	0.5%/1%	1%	85g
SCT016S		150A	100mA	1:1500	10Ω	0.5%/1%	1%	85g
SCT016S		150A	50mA	1:3000	10Ω	0.5%/1%	1%	85g
SCT016S		160A	40mA	1:4000	10Ω	0.5%/1%	1%	85g
SCT016S		200A	100mA	1:2000	10Ω	0.5%/1%	1%	85g
			50mA	1:4000	10Ω	0.5%/1%	1%	85g
SCT016S	200A			10Ω	0.5%/1%	1%	85g	
Model	Input current		Output	Turns ratio	Power	Accuracy	Linearity	Weight
SCT016S		60A	1A	1:60	0.1VA	1%	1%	85g
SCT016S		80A	1A	1:80	0.1VA	1%	1%	85g
SCT016S	100A		1A	1:100	0.1VA	1%	1%	85g
Model	Input current		Output	Turns ratio	Load resistance	Accuracy	Linearity	Weight
SCT016S		50A	0.333V	—	built-in	0.5%/1%	1%	85g
SCT016S		100A	0.333V	—	built-in	0.5%/1%	1%	85g
SCT016S	150A		0.333V	—	built-in	0.5%/1%	1%	85g

Can be customized parameters/lead length/lead specifications according to user requirements.

Wiring schematic diagram



- Built-in sampling resistance Voltage output type,
- Secondary doesn't allow short circuit



TVS: Transient voltage suppressor Current output type,
Secondary doesn't allow open circuit

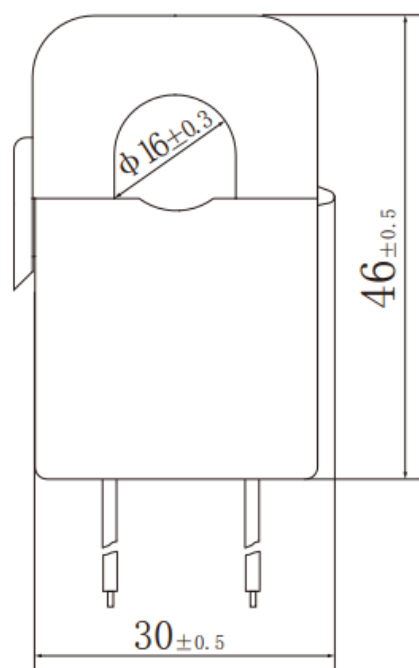
Cable (AWG22)

Specifications of lead wire: 20.3mm black and white twisted pair: (1AOutput: 0.75mm black and white twisted pair)

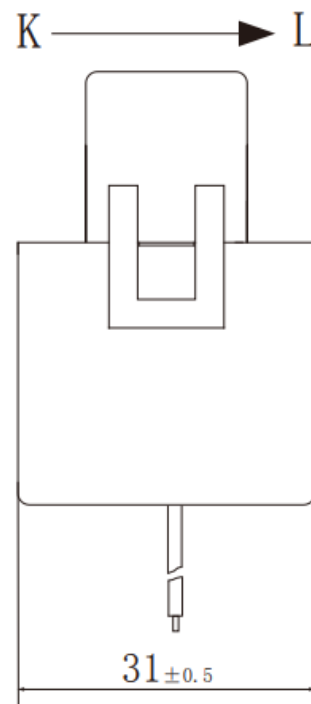
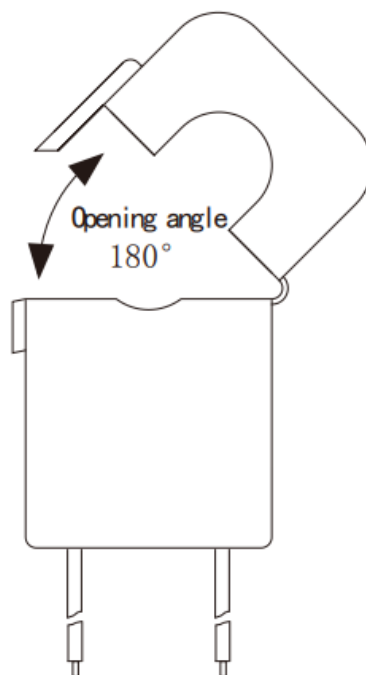
- **The length of lead wire:** 50cm
- **Color of lead wire:** white, black

Outline size: (in: mm)

Outline size: (in:mm):



Front view



Side view

www.poweruc.pl

FAQ

- **Can the parameters of the current transformer be customized?**
 - Yes, parameters such as lead length and specifications can be customized according to user requirements.
- **What is the maximum continuous input current supported by the SCT016S?**
 - The maximum continuous input current supported is 120% of the rated input for optimal performance.

Documents / Resources

SCT016S 50A Split Core Current Transformer Product features: - Split core design - High accuracy - Easy installation - Wide temperature range - High precision Product application: - Industrial - Commercial - Residential Product advantages: - High accuracy - High precision - High temperature range - High precision	HYDC SCT016S 50A Split Core Current Transformer [pdf] User Guide SCT016S 50A Split Core Current Transformer, SCT016S 50A, Split Core Current Transformer, C ore Current Transformer, Current Transformer, Transformer
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References

- [User Manual](#)

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