

Split Core Current Transformers

SCTK661 Series

SCTK661 series retro-fit (split-core) current transformer has been specially designed to facilitate their installation in new or already existing net works. They may be installed without opening any cable or bus-bar circuit. An internal precision resistor across the secondary winding of the CT provides a low safe voltage output. It can save time and the installation costs.

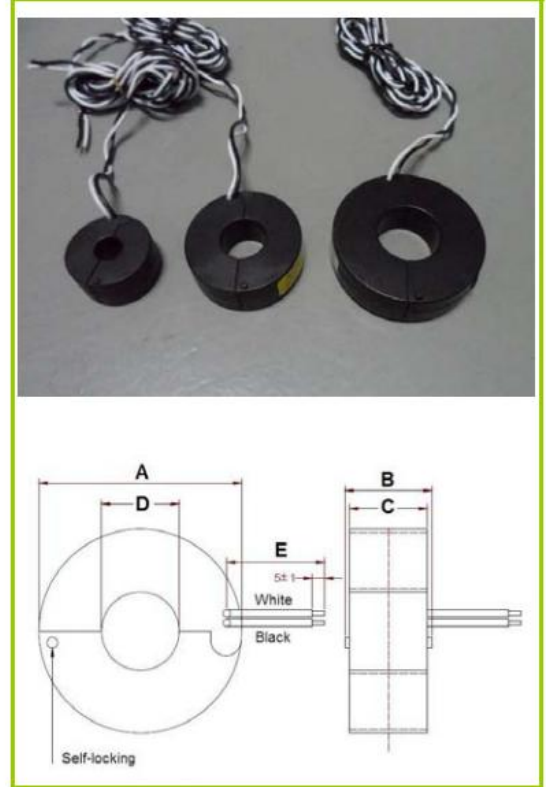
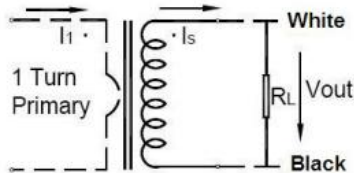
◆ Features

- The structure of the self-locking, safe, easy to install, portable
- Wide inner window, allowing clamping of big cables or bus-bars
- Wide range of sizes to accommodate all the existing installations

◆ Applications

- Current measurement, monitoring and protection for electrical wiring and equipment.
- Current and power measurement for electric motors, lighting, air compressor, heating and ventilation system, air-condition equipment and automation – control system.
- Current, power and energy monitoring device.
- Relay protection device.

◆ Circuit connection diagram



◆ Technique Index

Electrical Parameter	
Frequency	50-60Hz
Rated Input	0.5A-630A
Measuring range	10%In-130%In
Rated Output	0.333V(AC) or 0-500mA
Ratio	$\leq \pm 0.1\%$
Phase angle	$\leq \pm 30\text{min}$
Dielectric strength	2.5KV/1mA/1min
Insulation Resistance	DC500V/100MΩ min

Mechanical Parameter	
Case	PC /UL94-V0
Bobbin	PBT
Core	Permalloy
Internal structure	Epoxy
Construction	Tie
Operating Temp	$-25^{\circ}\text{C} \sim +75^{\circ}\text{C}$
Operating Humidity	$\leq 85\%$
Output Connection	UL1015 22AWG Wire(twinsted wire) 2.5m

◆ Type Selection

Mfg P/N	Rated Input (A)	Output (mA/V)	Accuracy	Dimensions(mm/inch)				
				A	B	C	D	E
SCTK661A-008	0.5-50A (1、5、10、30、50)	0-50mA 0.333V	0.2、0.5、1.0	36.0 (1.42)	22.0 (0.87)	20.0 (0.79)	8.0 (0.31)	2500 (100)
SCTK661B-013	1-100A (5、10、50、75、100)	0-100mA 0.333V	0.2、0.5、1.0	42.0 (1.65)	22.0 (0.87)	20.0 (0.79)	13.0 (0.51)	2500 (100)
SCTK661C-019	5-250A (10、100、200、250、400)	0-200mA 0.333V	0.2、0.5、1.0	60.0 (2.36)	22.0 (0.87)	20.0 (0.79)	19.0 (0.75)	2500 (100)
SCTK661D-023	5-400A (10、100、200、250、400)	0-200mA 0.333V	0.2、0.5、1.0	60.0 (2.36)	22.0 (0.87)	20.0 (0.79)	23.0 (0.91)	2500 (100)
SCTK661E-032	10-630A (20、100、250、400、600)	0-500mA 0.333V	0.2、0.5、1.0	76.0 (2.99)	22.0 (0.87)	20.0 (0.79)	32.0 (1.26)	2500 (100)

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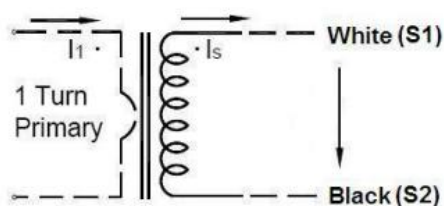
◆ Type Selection (Output: 1A/5A)

Mfg P/N	Input/Output (A)	Burden(VA)/Class				Product Description
		0.2	0.5	1.0	3.0	
SCTK661D-023	50/1	---	---	---	1.5	
	100/1	---	---	1.5	2.5	
	150/1	---	---	1.5	2.5	
	200/1	---	1.5	2.5	3.75	
	250/1	---	1.5	2.5	3.75	
	300/1	---	1.5	2.5	5	
	400/1	---	1.5	2.5	7.5	

SCTK661E-032	50/1	---	---	---	1.5
	150/1	---	---	1.5	2.5
	250/1	---	1.5	2.5	3.75
	300/1	---	1.5	2.5	5
	400/1	---	1.5	2.5	5
	500/1	---	2.5	3.75	7.5
	600/1	1.5	2.5	5	7.5
	100/5	---	---	1.5	2.5
	200/5	---	1.5	2.5	3.75
	250/5	---	1.5	2.5	3.75
	300/5	---	1.5	2.5	5
	400/5	---	1.5	2.5	5
	500/5	---	2.5	3.75	7.5
600/5	---	2.5	5	7.5	

Dimensions(mm/inch)					
Type	A	B	C	D	E
661D	60.0 (2.36)	22.0 (0.87)	20.0 (0.79)	23.0 (0.91)	2500 (100)
661E	76.0 (2.99)	22.0 (0.87)	20.0 (0.79)	32.0 (1.26)	2500 (100)

◆ Circuit connection diagram



NOTE:

- Rated Primary current :0-600Aac
- Rated Secondary current: 1A/5A
- Rated load: 1.5,2.5, 3.75, 5.0,7.5VA
- Accuracy: 0.2, 0.5, 1.0, 3.0 Class
- Output Connection:2*1.5mm² Wire 1m
- Forbidden to open the second, otherwise, easy to produce high voltage