

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.

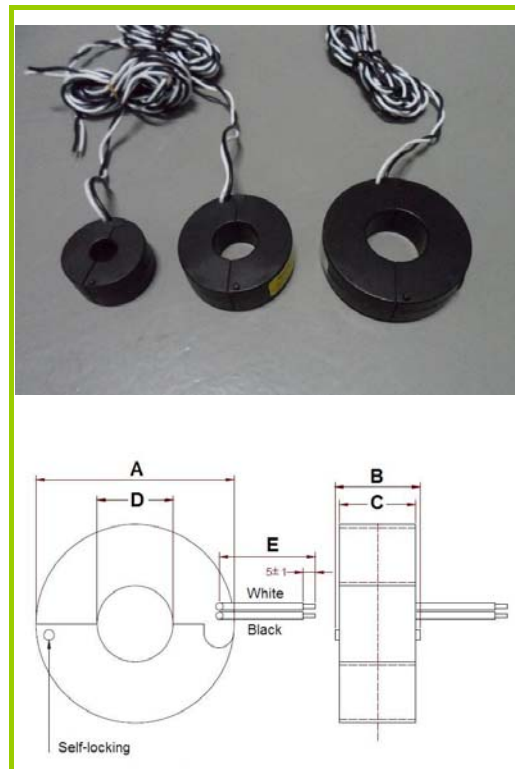
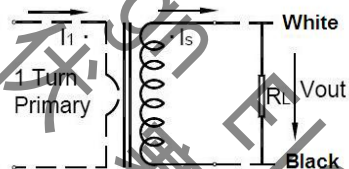
◆ Features

- 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	± 0.1%
Phase angle	≤ ±30min
Dielectric strength	2.5KV/1mA/1min
Insulation Resistance	DC500V/100MΩ min


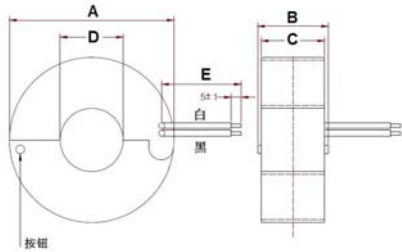
Mechanical Parameter	
Case	PC /UL94-V0
Bobbin	PBT
Core	Permalloy
Internal structure	Epoxy
Construction	Tie
Operating Temp	-25°C ~ +75°C
Operating Humidity	≤85%
Output Connection	UL1015 22AWG Wire(twinsted wire) 2.5m

◆ Type Selection

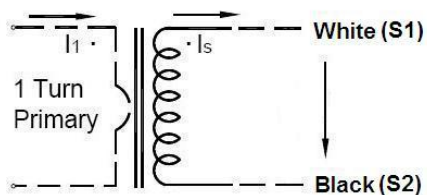
Mfg P/N	Rated Input (A)	Output (mA/V)	Accuracy	Dimensions(mm/inch)				
				A	B	C	D	E
SCTK661A-008	0.5-50A (1, 5, 10, 30, 50)	0-50mA 0.333V	0.2, 0.5, 1.0	36.0 (1.42)	22.0 (0.87)	20.0 (0.79)	8.0 (0.31)	2500 (100)
SCTK661B-013	1-100A (5, 10, 50, 75, 100)	0-100mA 0.333V	0.2, 0.5, 1.0	42.0 (1.65)	22.0 (0.87)	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)

SCTK661 Series

◆ 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	<p>Dimensions(mm/inch)</p> <table border="1"> <thead> <tr> <th>Type</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> </tr> </thead> <tbody> <tr> <td rowspan="3">661D</td> <td>60.0</td> <td>22.0</td> <td>20.0</td> <td>23.0</td> <td>2500</td> </tr> <tr> <td>(2.36)</td> <td>(0.87)</td> <td>(0.79)</td> <td>(0.91)</td> <td>(100)</td> </tr> <tr> <td>76.0</td> <td>22.0</td> <td>20.0</td> <td>32.0</td> <td>2500</td> </tr> <tr> <td>661E</td> <td>(2.99)</td> <td>(0.87)</td> <td>(0.79)</td> <td>(1.26)</td> <td>(100)</td> </tr> </tbody> </table>	Type	A	B	C	D	E	661D	60.0	22.0	20.0	23.0	2500	(2.36)	(0.87)	(0.79)	(0.91)	(100)	76.0	22.0	20.0	32.0	2500	661E	(2.99)	(0.87)	(0.79)	(1.26)	(100)
	Type	A	B	C	D		E																											
	661D	60.0	22.0	20.0	23.0		2500																											
		(2.36)	(0.87)	(0.79)	(0.91)		(100)																											
		76.0	22.0	20.0	32.0		2500																											
	661E	(2.99)	(0.87)	(0.79)	(1.26)		(100)																											
	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																														

◆ 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