

Split Core Current Transformers

SCTK673 Series

SCTK673 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.

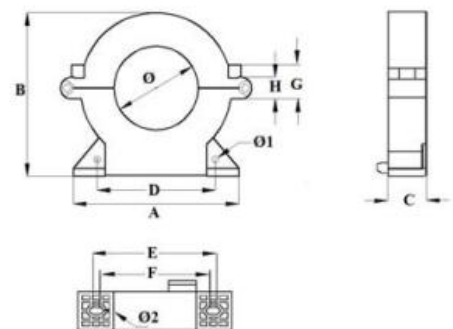
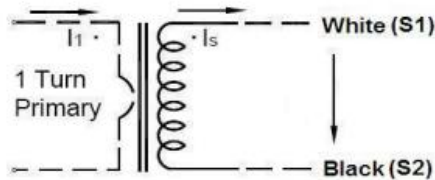
◆ Features

- Epoxy Potting, Double-screw fastening, 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		Mechanical Parameter	
Frequency	50-400Hz	Case	PC /UL94-V0
Rated Input	5A-1000A	Bobbin	PBT
Measuring range	5%In-130%In	Core	Silicon steel
Rated Output	0-10V(AC) or 0-5A	Internal structure	Epoxy
Ratio	$\leq \pm 0.2\%$	Construction	Tie
Phase angle	$\leq \pm 10\text{min}$	Operating Temp	$-25^{\circ}\text{C} \sim +75^{\circ}\text{C}$
Dielectric strength	2.5KV/1mA/1min	Operating Humidity	$\leq 85\%$
Insulation Resistance	DC500V/100M Ω min	Output Connection	UL1015 22AWG Wire(twinsted wire) 2.5m

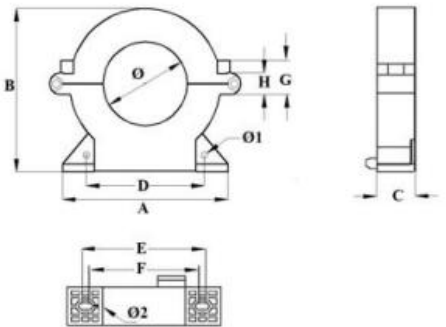
◆ Type Selection (Output: mA/V)

Mfg P/N	Rated Input (A)	Output (mA/V)	Accuracy	Dimensions(mm/inch)									
				Ø	A	B	C	D	E	F	G	Ø1	Ø2
SCTK673A-025	5-400A (5、100、250、400A)	0-200mA 0-10V	0.2、0.5、1.0	25	100	100	42	60	87	72	22	16	5
				(1.0)	(3.9)	(3.9)	(1.7)	(2.4)	(3.4)	(2.8)	(0.9)	(0.6)	(0.2)
SCTK673B-045	50-1000A (50、250、400、1000A)	0-500mA 0-10V	0.2、0.5、1.0	45	123	123	42	80	109	94	23	16	5
				(1.8)	(4.8)	(4.8)	(1.7)	(3.1)	(4.3)	(3.7)	(0.9)	(0.6)	(0.2)

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◆ Type Selection (Output: 1A/5A)

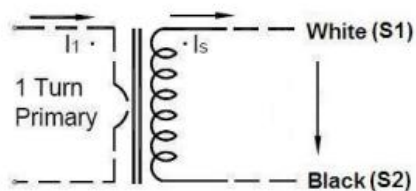
Mfg P/N	Input/Output (A)	Burden(VA)/Class				Product Description
		0.2	0.5	1.0	3.0	
SCTK673A-025	30/1	---	1.5	2.5	3.75	
	50/1	1.5	2.5	5	7.5	
	100/1	1.5	2.5	3.75	5	
	200/1	2.5	3.75	5	7.5	
	250/1	2.5	3.75	5	7.5	
	300/1	2.5	5	5	10	
	400/1	3.75	5	7.5	15	
	30/5	---	---	1.5	2.5	
	50/5	---	1.5	2.5	3.75	
	100/5	---	2.5	3.75	5	
	200/5	---	1.5	3.75	5	
	250/5	1.5	3.75	7.5	10	
	300/5	1.5	3.75	7.5	15	
	400/5	2.5	5	10	25	
	100/1	---	2.5	3.75	5	
	250/1	1.5	3.75	5	7.5	

SCTK673B-045

400/1	2.5	5	7.5	10
500/1	3.75	5	7.5	10
600/1	3.75	3.75	7.5	15
800/1	5	7.5	10	25
1000/1	5	7.5	10	30
100/5	---	2.5	3.75	5
250/5	1.5	3.75	5	7.5
400/5	2.5	5	7.5	10
500/5	3.75	5	7.5	10
600/5	3.75	3.75	7.5	15
800/5	5	7.5	10	25
1000/5	5	7.5	10	30

Dimensions(mm/inch)										
型 号	Ø	A	B	C	D	E	F	G	Ø1	Ø2
673A	25	100	100	42	60	87	72	22	16	5
673B	45	123	123	42	80	109	94	23	16	5

◆ Circuit connection diagram



NOTE:

- Rated Primary current :0-1000Aac
- Rated Secondary current: 1A/5A
- Rated load: 1.5,2.5, 3.75, 5.0, 10,15, 25,30VA
- Accuracy: 0.2, 0.5, 1.0, 3.0 Class
- Output Connection:2*2.5mm² Wire 1m or Terminal
- Forbidden to open the second, otherwise, easy to produce high voltage