

Split Core Current Transformers

SCTK681A Series

SCTK681A 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.

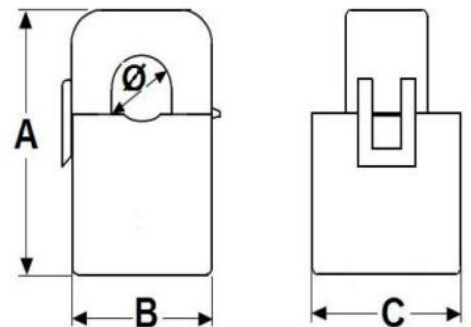
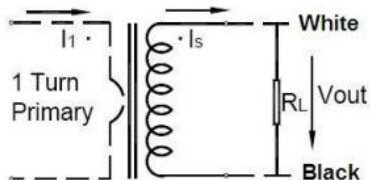
◆ Features

- 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	50-2KHz
Rated Input	5A-630A
Measuring range	10%In-130%In
Rated Output	0.333V(AC) or 0-500mA
Ratio	≤± 1.0%
Phase angle	≤ ±60min
Dielectric strength	2.5KV/1mA/1min
Insulation Resistance	DC500V/100MΩ min

Mechanical Parameter	
Case	PA /UL94-V0
Bobbin	PBT
Core	Silicon steel
Internal structure	Epoxy
Construction	Tie
Operating Temp	-25℃~+75℃
Operating Humidity	≤85%
Output Connection	UL1015 20AWG Wire(twinsted wire) 2.5m

◆ Type Selection (Output: mA/V)

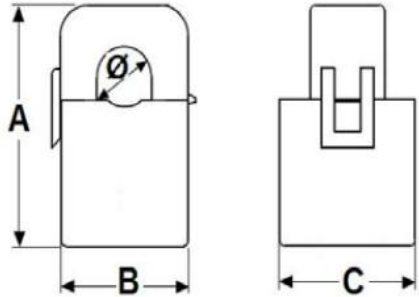
Mfg P/N	Rated Input (A)	Output (mA/V)	Accuracy	Dimensions(mm/inch)			
				Ø	A	B	C
SCTK681A-005	5-20A (5, 8A, 10, 15, 20)	0-25mA 0.333V	0.5, 1.0, 3.0	5.0 (0.20)	31.5 (1.24)	19.5 (0.77)	21.0 (0.83)
SCTK681A-010	5-75A (5, 10, 20, 50, 75)	0-50mA 0.333V	0.5, 1.0, 3.0	10.0 (0.39)	41.0 (1.61)	24.0 (0.94)	26.5 (1.04)
SCTK681A-016	5-150A (5, 10, 50, 100, 150)	0-100mA 0.333V	0.5, 1.0, 3.0	16.0 (0.63)	45.5 (0.22)	29.0 (1.14)	31.5 (1.24)
SCTK681A-024	10-250A (10, 50, 100, 200, 250)	0-200mA 0.333V	0.5, 1.0, 3.0	24.5 (0.96)	65.0 (2.56)	45.0 (1.77)	40.0 (1.57)
SCTK681A-035	10-630A (20, 100, 250, 400, 600)	0-500mA 0.333V	0.5, 1.0, 3.0	35.7 (1.41)	81.5 (3.21)	57.0 (2.24)	51.0 (2.01)

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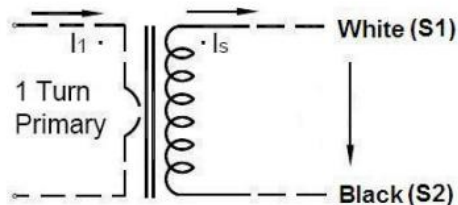
◆ Type Selection (Output: 1A/5A)

Mfg P/N	Input/Output (A)	Burden(VA)/Class				Product Description
		0.2	0.5	1.0	3.0	
SCTK681A-024	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	

SCTK681A-035	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		Dimensions(mm/inch)
	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		

Type	Ø	A	B	C
681A-024	24.5	65.0	45.0	40.0
	(0.96)	(2.56)	(1.77)	(1.57)
681A-035	35.7	81.5	57.0	51.0
	(1.41)	(3.21)	(2.24)	(2.01)

◆ 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:UL1015 22AWG Wire 2.5m
- Forbidden to open the second, otherwise, easy to produce high voltage