

Split Core Current Transformers

SCTK731 Series

SCTK731 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.

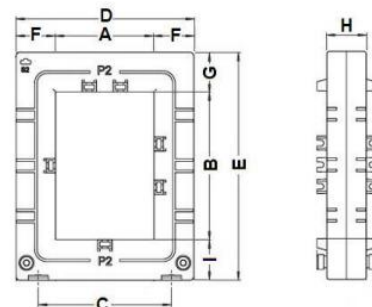
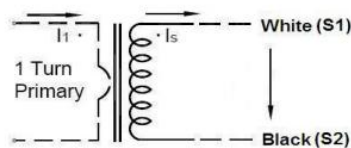
◆ Features

- 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	
Frequency	50-400Hz
Rated Input	5A-5000A
Measuring range	5%In-130%In
Rated Output	0-5A
Ratio	$\leq \pm 0.5\%$
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	Silicon steel
Internal structure	Epoxy
Construction	Screw
Operating Temp	$-25^{\circ}\text{C} \sim +75^{\circ}\text{C}$
Operating Humidity	$\leq 85\%$
Output Connection	Terminal

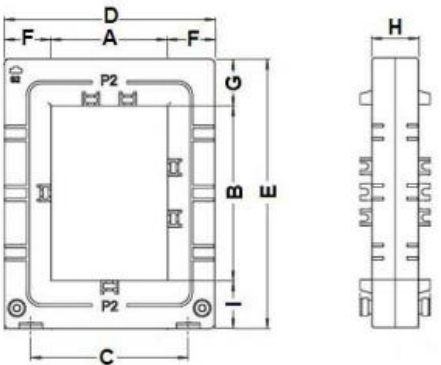
◆ Type Selection (Output: 1A/5A)

Mfg P/N	Rated Input (A)	Output (A)	Accuracy	Dimensions(mm/inch)								
				A	B	C	D	E	F	G	H	I
SCTK731A(23)	100-400A	1A/5A	0.5, 1.0, 3.0	20	30	51	89	105	34	47	40	32
SCTK731B(58)	250-1000A	1A/5A	0.5, 1.0, 3.0	50	80	78	114	145	32	32	32	33
SCTK731C(88)	250-1000A	1A/5A	0.5, 1.0, 3.0	80	80	108	144	145	32	32	32	33
SCTK731D(812)	500-1500A	1A/5A	0.5, 1.0, 3.0	80	120	108	144	185	32	32	32	33
SCTK731E(814)	600-4000A	1A/5A	0.5, 1.0, 3.0	80	140	120	172	220	45	42	45	35
SCTK731F(816)	800-5000A	1A/5A	0.5, 1.0, 3.0	80	160	120	184	245	52	52	50	38
SCTK731G(36)	100-3000A	1A/5A	0.5, 1.0, 3.0	30	60	88	132	131	49	36	55	43

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◆ Type Selection (Output: 1A)

Mfg P/N	Input/Output (A)	Burden(VA)/Class				Product Description
		0.2	0.5	1.0	3.0	
SCTK731A(23)	100/1	--	--	---	1.5	
	150/1	--	---	1.5	2.5	
	200/1	--	1.5	2.5	3.75	
	250/1	--	2.5	3.75	5	
	400/1	1.5	3.75	5	10	
SCTK731B(58)	250/1	--	2.5	3.75	5	
	400/1	1.5	2.5	3.75	10	
	500/1	1.5	3.75	5	15	
	800/1	2.5	3.75	5	20	
	1000/1	2.5	5	10	25	
SCTK731C(88)	250/1	--	2.5	3.75	5	
	400/1	1.5	2.5	3.75	10	
	500/1	1.5	3.75	5	15	
	800/1	2.5	3.75	5	20	
	1000/1	2.5	5	10	25	
SCTK731D(812)	500/1	1.5	3.75	5	15	Dimensions(mm)
	600/1	1.5	3.75	5	15	
SCTK731E(814)	800/1	2.5	3.75	5	20	Type
	1000/1	2.5	5	10	25	A
	1500/1	2.5	7.5	30	45	B
	800/1	2.5	3.75	5	20	C
	1000/1	2.5	5	10	25	D
	2000/1	5	7.5	30	45	E
SCTK731F(816)	2500/1	5	10	30	45	F
	4000/1	5	15	30	45	G
	1000/1	2.5	5	10	25	H
	1500/1	2.5	7.5	20	45	I
	2000/1	5	7.5	25	45	
	2500/1	5	10	25	45	
SCTK731G(36)	3000/1	5	10	25	45	
	4000/1	5	15	30	45	
	5000/1	10	15	30	45	
	250/1	1.5	2.5	3.75	5	
	600/1	2.5	5	7.5	10	
	1500/1	2.5	7.5	20	30	
SCTK731G(36)	2500/1	5	10	25	30	
	3000/1	5	10	25	30	

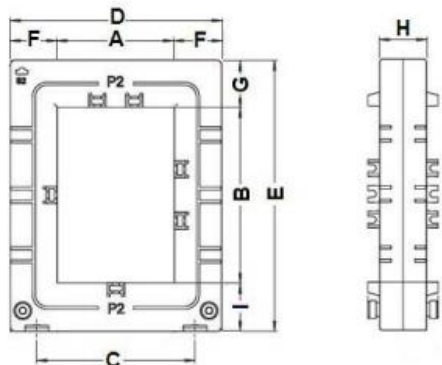
NOTE:

- Rated Primary current :0-5000Aac
- Rated Secondary current: 1A
- Rated load: 2.5, 3.75, 5.0, 10,15, 20,30, 45VA
- 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

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◆ Type Selection (Output: 5A)

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