



Features:

- Casing : ABS plastic
- Din Rail Mounting
- Use with Different Bus Bar
- Class 0.5 accuracy

Certifications: 

Specifications

Input / Output Specifications

Rated primary rating	75A to 1200A (factory set)
Rated secondary output	5A

Technical Specifications

Rated burden	1.5V to 15VA (factory set)
Class of accuracy	0.5 to 1
Thermal Nominal Continuous Rated Current (I _{th})	120% of In
Thermal short circuit current (I _{th})	I _{th} =60 X In for 1 sec
Instrument security factor	FS<1.2
Isolation class	E (120°C max)
Max operating voltage (U _m)	720V maximum
Isolation test voltage	3kV AC 1 min
Nominal rated frequency	AC 50Hz -60Hz

Environmental Specifications

Ambient temperature	0°C...+50°C
Humidity	< 95% RH (non condensing)
Storage temperature	-5°C...+50°C

Compliance

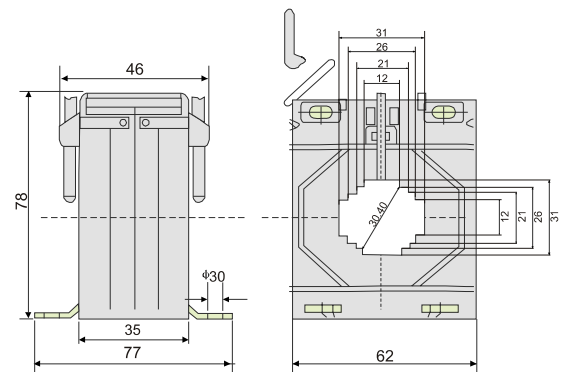
Case	Made from ABS Plastic
Mounting modes	DIN rail / Base mount
Connection	Two connection on each side. M4 screws with self lifting clamp strap for all type

Standard

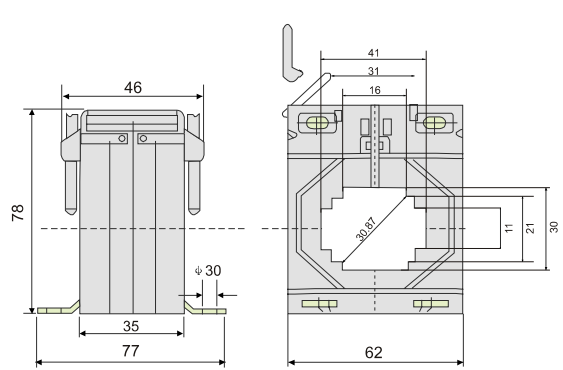
Applicable standard	IEC/EN 60044 -1, BS 3938
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Dimension (in mm)

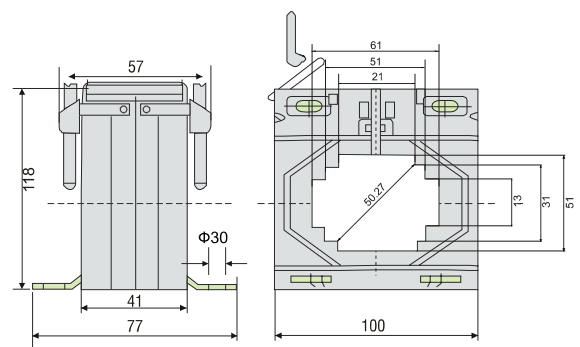
SPCT-62/30:



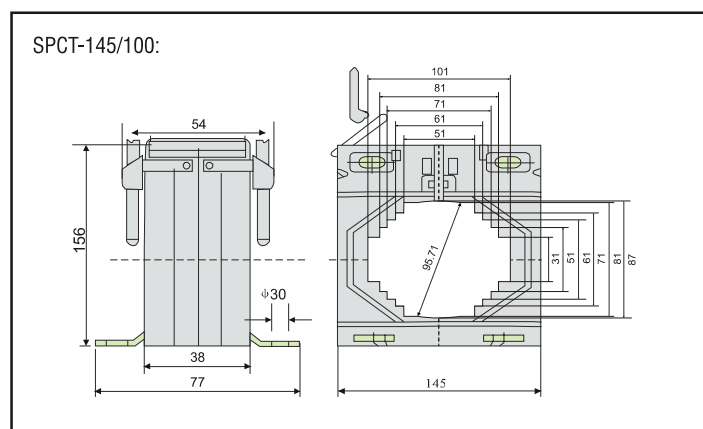
SPCT-62/40:



SPCT-100/60:



Dimension (in mm)



Ordering Information

Part No.	Current Ratio	Burden In VA	Accuracy Class	Bus Bar (In mm)	Round Conductor (In mm)
SPCT-62/30-75/5-1(1T)-1	75/5	1(1T)	1	30x10	28.5
SPCT-62/30-100/5-1.5(1T)-1	100/5	1.5(1T)	1	30x10	28.5
SPCT-62/40-150/5-1.5-1	150/5	1.5	1	40x10	26.3
SPCT-62/40-200/5-2.5-0.5	200/5	2.5	0.5	40x10	26.3
SPCT-62/40-250/5-2.5-0.5	250/5	2.5	0.5	40x10	26.3
SPCT-62/40-300/5-3-0.5	300/5	3	0.5	40x10	26.3
SPCT-62/40-400/5-3.75-0.5	400/5	3.75	0.5	40x10	26.3
SPCT-100/60-600/5-5-0.5	600/5	5	0.5	60x10	37.3
SPCT-145/100-800/5-10-0.5	800/5	10	0.5	100x10	79.4
SPCT-145/100-1000/5-10-0.5	1000/5	10	0.5	100x10	79.4
SPCT-145/100-1200/5-10-0.5	1200/5	10	0.5	100x10	79.4

Definitions

Rated Primary Current : The value of primary current which appears in the designation of the transformer and on which the performance of the CT is based.

Rated Secondary Current : The value of secondary current which appears in the designation of the transformer and on which the performance of the CT is based.

Instrument limit primary current : The value of the minimum primary current at which the composite error of the measuring current transformer is equal to or greater than 10%, the secondary burden being equal to the rated burden.

Rated Transformation Ratio : The ratio of rated primary current to the rated secondary current.

Current Error (ratio error) : the error with a transformer introduces into the measurement of a current & which arises from the fact that actual transformation ratio is not equal to the rated transformer ratio.

The current error expressed in percentage is given by the formula :

Current Error Percent = $(K_a \cdot I_s - I_p) \times 100 / I_p$ Where K_a = rated transformation ratio

I_p = actual primary current

I_s = actual secondary current when I_p is flowing under the conditions of measurement.

Phase Displacement : The difference in phase between the primary & secondary current vectors, the direction of the vectors being so chosen that the angle is zero for the perfect transformer. The phase displacement is said to be positive when the secondary current vector leads the primary current vector. It is usually expressed in minutes.

Accuracy Class : A designation assigned to a CT, the errors of which remain within specified limit under prescribed conditions of use.

Burden : The impedance of the secondary circuit in ohms & power factor.

Rated output : The value of the apparent power (in volt-amperes at a specified power factor) which the CT is intended to supply to the secondary circuit at the rated secondary current & with rated burden connected to it.

Rated Insulation level : That combination of voltage values (Power frequency & lightning impulse, or where applicable, lightning & switching impulse) which characterizes the insulation of a transformer with regard to it's capability to withstand by dielectric stresses. For low voltage transformer the test voltage 4kV, at power-frequency , applied during 1 minute.

Rated short time thermal current (I_{th}) : The RMS value of the primary current which the current transformer will withstand for a rated time, with their secondary winding short circuited without suffering harmful effects.

Rated continuous thermal current : The value of current which can be permitted to flow continuously in the primary winding, the secondary windings being connected to the rated burdens, without the temperature rise exceeding the specified values.

Instrument Safety Factor : The ratio of instrument limit primary current to the rated primary current.

Limit of error as specified for class 0.5 C.T :

Limit of error for Standard accuracy class 0.5

Accuracy Class	+/- Percentage Current (Ratio) Error at percentage of Rated current				Accuracy Class	+/- Phase Displacement in minutes at percentage of Rated current			
	5	20	100	120		5	20	100	120
0.5	1.5	0.75	0.5	0.5	0.5	90	45	30	30

Accuracy Curve

