

MODERN ENERGY MONITORING



Split-Core Current Transformers

Datasheet-2020-03

WE MAKE ENERGY
MONITORING SIMPLE

1. Introduction

The eTactica split core current transformers are intended for use with the EM-SC Power meter product. The sensors are compact, allowing use in confined spaces or in high density. They have a robust closure to avoid unintentional opening, without requiring special tools. Tabs are provided to allow fixing with cable ties. Three different sizes are available, covering most common installation cases. For higher currents, (1 kA – 3 kA) we have a separate line of flexible coil current sensors. Visit www.etactica.com for more information.

2. Electrical Specifications

Product code	SC-80	SC-200	SC-500
Nominal rated current (I_n)	80 A	200 A	500 A
Output at max current (secondary)	100 mA		
Measuring range	10 % I_n – 130 % I_n		
Dielectric strength	2.5 kV / 1 mA / 1 min		
Insulation resistance	500 V DC / 100 M Ω min		
Accuracy	< ± 1 %		
Phase offset	< $\pm 1^\circ$		
Burden (VA)	0.5		
Operating Frequency	50 – 2000 Hz		
Installation Category	Cat III 300V		

3. Mechanical Specifications

Case material	PA / UL94-V0
Bobbin	PBT
Core	Silicon Steel
Internal structure	Epoxy
Construction	Tie
Operating temperature	-25°C - +75°C
Operating humidity	≤ 85 %

Output connection	UL1015 20 AWG wire – 2m
-------------------	-------------------------

4. Physical sizes

The eTactica split core CTs are sized appropriately for the intended load. See the dimension drawing and the chart below for specific sizes for each part number. Note that tabs for cable ties are not shown on the drawing.

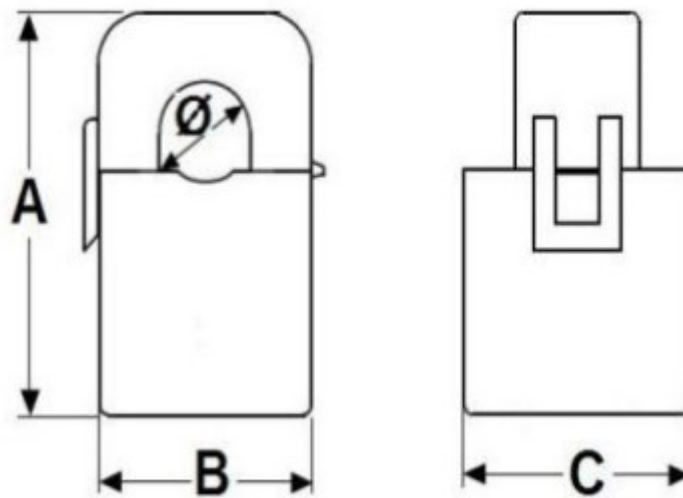


Figure 1: Dimension drawing

	Dimensions in mm (inch)		
Product code	SC-80	SC-200	SC-500
Weight	98 g	194 g	332 g
Dimension Ø	16.0 (0.63)	23.8 (0.94)	35.7 (1.41)
Dimension A	45.5 (0.22)	65.0 (2.56)	81.5 (3.21)
Dimension B	29.0 (1.14)	45.0 (1.77)	57.0 (2.24)
Dimension C	31.5 (1.24)	34.4 (1.35)	38.4 (1.51)

5. Revision History

Revision	Description	Author
2020-03	Initial release	KJP