

ELECTRICAL SAFETY  
POWER QUALITY  
ENERGY MANAGEMENT



## Split-Core Current Transformer ESCT series

---

- Easy and quick commissioning
- Highly suitable for retrofit applications
- Complies to IEC60044-1, EN60044-1, VDE0414-44-1, GB1208-2006

# Split-Core Current Transformer ESCT-Series

---



## Product Description

The compact split-core current transformers (ESCT) are highly suitable for applications where a disconnection of power cables is either difficult or not possible. This makes the ESCT a perfect solution for retrofitting of existing electrical systems.

The high accuracy allows exact current measurements for various applications like datacenters, commercial buildings, or production plants. All transformers are supplied with color-coded wires to reduce common mistakes during the installation. Two UV-resistant wire ties are also included for easy mounting.

## Features

- Up to 3000A
- Accuracy class 0.5
- Operating Temperature: -15°C bis 60°C
- Size ranges from Ø 10mm up to Ø 76.2mm
- Rapid mounting - without disconnecting the power cables

## Typical Applications

- Current measurement, monitoring for protection of wires and equipment
- Current and power measurement for electric motors, lighting, air compressor, heating and ventilation system, air-condition equipment and automation - control system
- Sensor for current, power and energy monitoring devices

## ESCT-1A/5A Split Core Current Transformer

### Specification

Frequency	50-60Hz
Rated Current	100A to 600A loads
Rated Output	1A / 5A (AC)
Accuracy	Class 0.5 from 20% to 120% of rated current
Phase angle	Less than 2 degrees at 50% of rated current
Insulation voltage	600Vac
Maximum primary voltage	5000Vac
Dielectric strength	2.5KV/1mA/1min
Operating temperature	-15°C to 60°C
Operating humidity	<85%
Case material	PC/UL94-V0
Bobbin	PBT
Core	Permalloy
Internal structure	Epoxy

## ESCT-333mV Split Core Current Transformer

### Specification

Frequency	50-60Hz
Rated Current	5A to 600A loads
Rated Output	333mV/100mV (AC) Class 0.5 from 20% to 120% of rated current
Accuracy	Class 0.5 from 20% to 120% of rated current
Phase angle	Less than 2 degrees at 50% of rated current
Insulation voltage	600Vac
Maximum primary voltage	5000Vac
Dielectric strength	2.5KV/1mA/1min
Operating temperature	-15°C to 60°C
Operating humidity	<85%
Case material	PC/UL94-V0
Bobbin	PBT
Core	Permalloy
Internal structure	Epoxy
Leads	UL1015, Twisted Pair, 22AWG

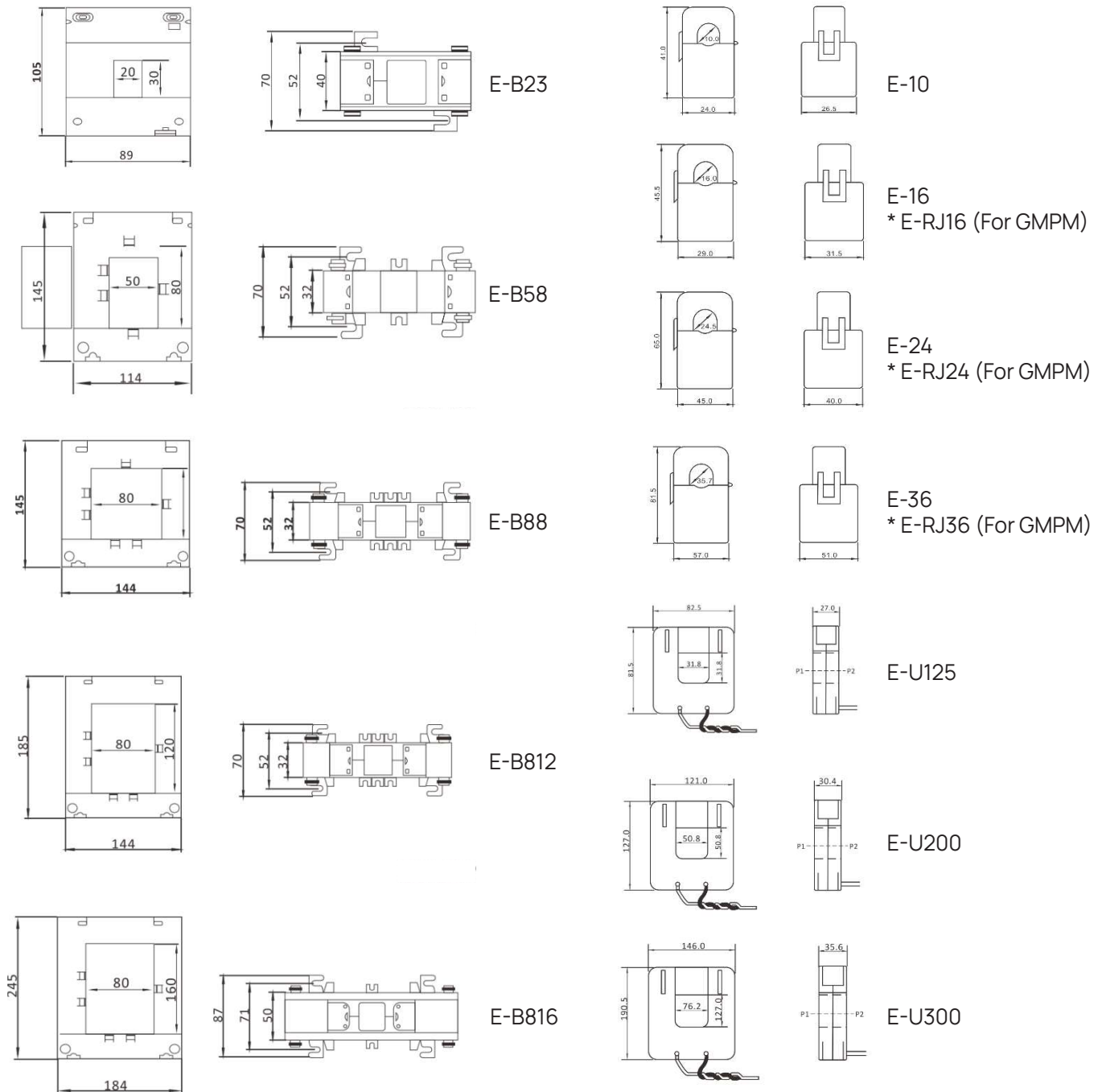
## ESCT Models

Model	Primary Current Rating	Secondary Current Rating
E-10	5 / 10 / 20 / 50 / 75	333mV, 100mV
E-16 / E-RJ16 (GMPM)	5 / 10 / 50 / 100 / 150	333mV, 100mV
E-24 / E-RJ24 (GMPM)	10 / 50 / 100 / 250 / 300	1A or 5A (only for >200A), 333mV, 100mV
E-36 / E-RJ36 (GMPM)	20 / 100 / 250 / 400 / 600	1A or 5A (only for >200A), 333mV, 100mV
E-U125	50 / 100 / 125 / 250 / 400 / 630	333mV, 100mV
E-U200	100 / 125 / 250 / 400 / 630 / 800 / 1000 / 2000	333mV, 100mV
E-U300	400 / 800 / 1500 / 2500 / 3000	333mV, 100mV
E-B23	100 / 150 / 200 / 250 / 300 / 400	1A, 5A
E-B58	250 / 300 / 400 / 500 / 600 / 750 / 800	1A, 5A
E-B812	500 / 600 / 750 / 800 / 1000 / 1200 / 1500	1A, 5A
E-B816	1000 / 1500 / 2000 / 2500 / 3k / 4k / 5k / 6k	1A, 5A

## Ordering Code

-	
X	Primary Current rating
/	
X	Secondary current rating / 1A, 5A, 333mV
-	
X	Cable length (10m max), Not applicable for E-B23, E-B58, E-B812, E-B816

# Dimensions



Part of Bender

## Eetarp Engineering Pte Ltd

1 North Coast Avenue, #03-01  
Singapore 737663  
Tel: +65 6339 3651  
Fax: + 65 6339 3667  
Email: [contact@eetarp.com](mailto:contact@eetarp.com)  
Website: [www.eetarp.com](http://www.eetarp.com)  
CRN: 200001617K

## Supported Countries

Australia, China, India, Indonesia, Japan, Philippines, South Korea, Taiwan, Thailand, Vietnam

## Eetarp Power (M) Sdn Bhd

A-5-11, Blk Allamanda 10 Boulevard, Lebuhraya  
Sprint PJU 6A 47400,  
PJ, Selangor, Malaysia  
Tel: +65 6339 3651  
Fax: + 65 6339 3667  
Email: [contact@eetarp.com](mailto:contact@eetarp.com)  
CRN: 1205228P