



# Current transformers

High accuracy measurement sensors  
from 100 to 2000 A



Ø 40 Transformer  
0.5 and 0.2s class

transfo\_020\_a



42 x 105 mm Transformer  
0.2s class

transfo\_024\_a



Ø 90 Transformer  
0.2s class

transfo\_022\_a

## The solution for

- > Current measurement and energy metering in HV/LV substations

## Strong points

- > Enedis approved
- > High measurement accuracy
- > Wide dimensions choice
- > Multi-ratings
- > Easy to install
- > Easy to connect and secure

## Compliance with standards

- > IEC 61869-2
- > Enedis-NOI-CPT\_01E V5  
Technical documentation on metering

## Other products

- > SOCOMEC can also offer the following customised solutions:
  - Metering
  - Other LV ratings
  - Other dimensions

Please ask us for further details.

## Function

SOCOMEK current transformers deliver a standard current to the secondary that is proportional to the primary current and adapted to the rating of the associated energy meter.

## Advantages

### High measuring accuracy

The very high 0.2s accuracy class guarantees maximum metering, even with low loads.

An 0.2s accuracy class means that the measurement has an error rate of 0.2% over a range of 20 to 120% of the nominal current ( $I_n$ ) and at a specific accuracy above 1% of  $I_n$ .

### Wide dimensions choice

Three models to allow through any primary conductor, cables or bar.

Please refer to the connection capacities on next page.

### Multi-ratings

Multi-rating transformers offer great flexibility on installation. You can adapt the CT to the subscribed power without changing equipment.

They improve the continuity of the power supply by limiting network interruptions and outages.

### Easy to install

3 types of fastenings for any type of mounting:

- On back-plate or section.
- On DIN rail.
- On busbars with isolated centring system.

### Easy to connect and secure

- Connection of a secondary circuit by cage terminal for 6 mm<sup>2</sup> cables.
- Double connection to adapt to the cable input direction and to short-circuit the secondary after rating change.
- Sealing cover to prevent access to the rating settings.

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## References

Primary ratings	Secondary	Reference
100, 200, 500 A	5 A	<b>TRAMES141</b>
200, 500 A	5 A	<b>TRAMES142</b>
200, 500 A	5 A	<b>TRAMES143</b>
500, 1000, 2000 A	5 A	<b>TRAMES144</b>
500, 1000, 2000 A	5 A	<b>TRAMES145</b>

## Characteristics

	TRAMES141	TRAMES142	TRAMES143	TRAMES144	TRAMES145
Winding ratio	100-200-500/5 A	200-500/5 A	200-500/5 A	500-1000-2000/5 A	500-1000-2000/5 A
Connection	S2 - S1: 500/5 A S2 - S3: 200/5 A S2 - S5: 100/5 A	S2 - S1: 500/5 A S2 - S3: 200/5 A	S2 - S1: 500/5 A S2 - S3: 200/5 A	S2 - S1: 2000/5 A S2 - S3: 1000/5 A S2 - S5: 500/5 A	S2 - S1: 2000/5 A S2 - S3: 1000/5 A S2 - S5: 500/5 A
Output power (VA)	3.75	7.5	7.5	7.5	7.5
Frequency	50 Hz				
Max. primary voltage	U <sub>max</sub> = 0.72 kV				
Withstand voltage rated to industrial-level frequency	U <sub>i</sub> = 3 kV				
Accuracy class	0.5	0.2s	0.2s	0.2s	0.2s
Operating conditions	-25 to +70°C ; <100% HR				

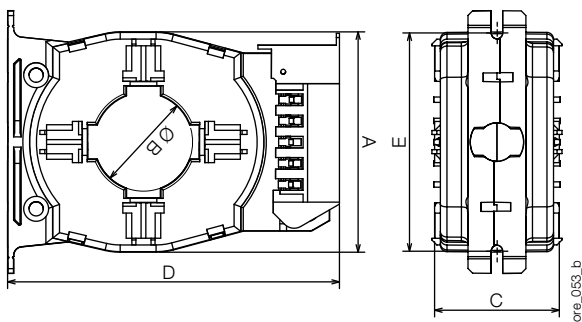
## Connection

	TRAMES141 - TRAMES142	TRAMES143 - TRAMES144	TRAMES145
Primary circuit conductor	one Ø 40 mm cable or two 50 x 5 mm busbars	one Ø 90 mm cable or three 100 x 5 mm busbars	two 125 x 5 mm busbars and one 125 x 10 mm busbar

## Dimensions

	TRAMES141 - TRAMES142	TRAMES143 - TRAMES144	TRAMES145
A (mm)	118	169	109
B (mm)	40	90	106 x 42
C (mm)	55	56	62
D (mm)	149	216	245
E (mm)	118	169	103

TRAMES141 to TRAMES144



TRAMES145

