Current transformers
High accuracy measurement sensors from 100 to 2000 A

Function
SOCOMEC 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 (Iₚ) and at a specific accuracy above 1% of Iₚ.

**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 mm² 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.

The solution for
- Current measurement and energy metering in HV/LV substations

Strong points
- ERDF approved
- High measuring accuracy
- Wide dimensions choice
- Multi-ratings
- Easy to install
- Easy to connect and secure

Compliance with standards
- IEC 61869-2
- ERDF-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.
Current transformers
High accuracy measurement sensors
from 100 to 2000 A

References

<table>
<thead>
<tr>
<th>Primary ratings</th>
<th>Secondary</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>100, 200, 500 A</td>
<td>5 A</td>
<td>TRAMES141</td>
</tr>
<tr>
<td>200, 500 A</td>
<td>5 A</td>
<td>TRAMES142</td>
</tr>
<tr>
<td>200, 500 A</td>
<td>5 A</td>
<td>TRAMES143</td>
</tr>
<tr>
<td>500, 1000, 2000 A</td>
<td>5 A</td>
<td>TRAMES144</td>
</tr>
<tr>
<td>500, 1000, 2000 A</td>
<td>5 A</td>
<td>TRAMES145</td>
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Characteristics

<table>
<thead>
<tr>
<th></th>
<th>TRAMES141</th>
<th>TRAMES142</th>
<th>TRAMES143</th>
<th>TRAMES144</th>
<th>TRAMES145</th>
</tr>
</thead>
<tbody>
<tr>
<td>Winding ratio</td>
<td>100-200-500/5 A</td>
<td>200-500/5 A</td>
<td>200-500/5 A</td>
<td>500-1000-2000/5 A</td>
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<tr>
<td>Connection</td>
<td>S2 - S1: 500/5 A, S2 - S3: 200/5 A, S2 - S3: 100/5 A</td>
<td>S2 - S1: 500/5 A, S2 - S3: 200/5 A</td>
<td>S2 - S1: 500/5 A, S2 - S3: 200/5 A</td>
<td>S2 - S1: 2000/5 A, S2 - S3: 1000/5 A, S2 - S3: 500/5 A</td>
<td>S2 - S1: 2000/5 A, S2 - S3: 1000/5 A, S2 - S3: 500/5 A</td>
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<tr>
<td>Output power (VA)</td>
<td>3.75</td>
<td>7.5</td>
<td>7.5</td>
<td>7.5</td>
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<tr>
<td>Frequency</td>
<td>50 Hz</td>
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<tr>
<td>Max. primary voltage</td>
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<tr>
<td>Umax = 0.72 kV</td>
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<tr>
<td>Withstand voltage</td>
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<tr>
<td>Ui = 3 kV</td>
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<tr>
<td>Accuracy class</td>
<td>0.5</td>
<td>0.2s</td>
<td>0.2s</td>
<td>0.2s</td>
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<tr>
<td>Operating conditions</td>
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<tr>
<td>-25 to +70°C; &lt;100% HR</td>
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Connection

<table>
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<tr>
<th>Primary circuit conductor</th>
<th>TRAMES141 - TRAMES142</th>
<th>TRAMES143 - TRAMES144</th>
<th>TRAMES145</th>
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</thead>
<tbody>
<tr>
<td>one Ø 40 mm cable or two 50 x 5 mm busbars</td>
<td>one Ø 90 mm cable or three 100 x 5 mm busbars</td>
<td>two 125 x 5 mm busbars and one 125 x 10 mm busbar</td>
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Dimensions

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<th>TRAMES141 - TRAMES142</th>
<th>TRAMES143 - TRAMES144</th>
<th>TRAMES145</th>
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</thead>
<tbody>
<tr>
<td>A (mm)</td>
<td>118</td>
<td>169</td>
</tr>
<tr>
<td>B (mm)</td>
<td>40</td>
<td>90</td>
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<tr>
<td>C (mm)</td>
<td>55</td>
<td>56</td>
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<tr>
<td>D (mm)</td>
<td>149</td>
<td>216</td>
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<tr>
<td>E (mm)</td>
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<td>169</td>
</tr>
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TRAMES141 to TRAMES144

TRAMES145

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