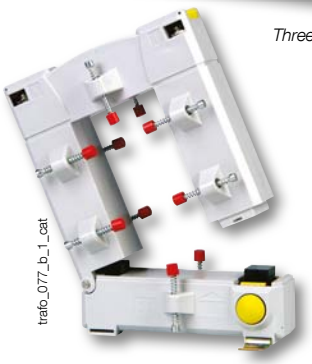
# Current transformers

## Measurement devices

from 5 to 5000 A

*Three-phase CT*

*Bar-through CT*




*Split-core transformer*

*Cable-through CT*

### The solution for

- Industry
- Office buildings

### Strong points

- An adapted accuracy class
- A wide range of ratings and dimensions
- Quick and easy to mount

### Conformity to standards

- IEC 61869-2
- IEC 61439-1

### Available on request

SOCOMEC also offer customised solutions:

- 1 A secondary
- Double or triple primary ratio
- Voltage transformer
- Summation CTs

## Function

SOCOMEC **current transformers** deliver to the secondary a standard current proportional to the primary current and adapted to the rating of the associated device. They are equipped as standard with removable terminal covers and double terminals allowing the secondary to be short-circuited without any risk.

They are mounted using two screw-on metal brackets or, in certain cases, by a clip-on DIN-rail fastener. The connections are made by screws or by fast-on terminals.

- Accuracy class: 0.2s — 0.5 or 1.
- Dielectric quality: 3 kV — 50 Hz — 1 min.
- Operating frequency: 50 — 60 Hz.
- Permanent overload: 1.2 In.
- Insulation class: E (120 °C).

## Advantages

**An adapted accuracy class**

In order to get the best of your DIRIS multifunction meters and COUNTIS energy meters, we can provide current transformers with the following accuracy classes: 0.2s; 0.5; 1 or 3.

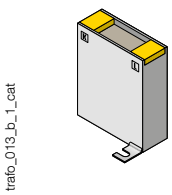
**A wide range of ratings and dimensions**

Your measurement process can be optimised whatever your needs in terms of ratings, space requirements, conductor sizing or accuracy class. A wide range of combinations are available in our standard range with specific versions available on request (other ratios, tropicalisation and specific frequency, class or burden).

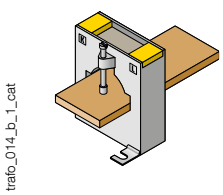
**Quick and easy to mount**

Our current transformers are adapted to any type of mounting: edgewise or flat mounting, DIN-rail or back-plate mounting. Implementation is easy and rapid.

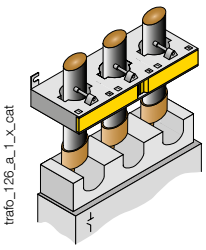
## Composition of the range



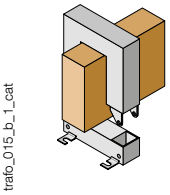

Primary wound moulded case CT




Bar or cable-through CT




Bar or cable-through three-phase CT




Bar-through split-core CT



socomec Innovative Power Solutions

# Primary wound moulded case CT

## References

| Primary | Secondary[1] | TRB 60 Class 0.5 | TRB 60 Reference | TRB 70 Class 0.5 | TRB 70 Reference | T2RB 115 Class 0.2s | T2RB 115 Reference | TRB 135 Class 0.5 | TRB 135 Reference |
|---|---|---|---|---|---|---|---|---|---|
| 5 A | 5 A | 2.5 VA | 192T **0505** | 10 VA | 192T **0521** | | | | |
| 10 A | 5 A | 2.5 VA | 192T **0510** | 10 VA | 192T **0522** | | | | |
| 15 A | 5 A | 2.5 VA | 192T **0515** | 10 VA | 192T **0523** | | | | |
| 20 A | 5 A | 2.5 VA | 192T **0520** | 10 VA | 192T **0524** | | | | |
| 25 A | 5 A | | | 10 VA | 192T **0525** | 7.5 VA | 192U **0402** | 10 VA | 192T **0603** |
| 30 A | 5 A | | | 5 VA | 192T **0530** | 7.5 VA | 192U **0403** | 10 VA | 192T **0607** |
| 40 A | 5 A | | | 5 VA | 192T **0541** | 7.5 VA | 192U **0404** | 10 VA | 192T **0604** |
| 50 A | 5 A | | | 5 VA | 192T **0551** | 7.5 VA | 192U **0405** | 10 VA | 192T **0605** |
| 60 A | 5 A | | | | | 7.5 VA | 192U **0406** | 10 VA | 192T **0606** |
| 75 A | 5 A | | | | | 7.5 VA | 192U **0407** | 10 VA | 192T **0608** |
| 80 A | 5 A | | | | | 7.5 VA | 192U **0408** | 10 VA | 192T **0609** |
| 100 A | 5 A | | | | | | | 10 VA | 192T **0610** |
| 125 A | 5 A | | | | | 7.5 VA | 192U **0412** | 10 VA | 192T **0612** |
| 150 A | 5 A | | | | | 7.5 VA | 192U **0415** | 10 VA | 192T **0615** |

*(1) Secondary 1 A: on request.*

## Accessories

| Description of accessories | TRB 60 Reference | TRB 70 Reference | | TRB 135 Reference |
|---|---|---|---|---|
| DIN-rail mounting | 192T **0003** | 192T **0005** [1] | | |
| Sealable cover | 192T **0105** | 192T **0103** | | 192T **0101** [2] |

*(1) Not available for 50 A rating*
*(2) For 125 and 150 A ratings, use reference 192T 0103.*

### CT Plug-in transducer (CEA-VA)

| Power supply | Output | TRB 60 Reference | TRB 70 Reference |
|---|---|---|---|
| Self-supplied | 0-20 mA / 0-10 VDC | 192Y **0015** | 192Y **0025** [1] |
| 230 VAC | 0-20 mA / 0-10 VDC | 192Y **0215** | 192Y **0225** [1] |
| 24 VDC | 0-20 mA / 0-10 VDC | 192Y **0115** | 192Y **0125** [1] |

*(1) Not available for ratings 40 and 50 A*

### CT Plug-in transducer (CEA-VA4)

| Power supply | Output | TRB 60 Reference | TRB 70 Reference |
|---|---|---|---|
| 230 VAC | 4-20 mA / 0-10 VDC | 192T **0255** | 192Y **0265** [1] |
| 24 VDC | 4-20 mA / 0-10 VDC | 192Y **0155** | 192Y **0165** [1] |

*(1) Not available for ratings 40 and 50 A*

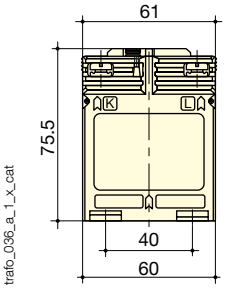
## Certificate of performance

Each class 0.2s current transformer is supplied with an individual certificate of performance, attesting to its accuracy.

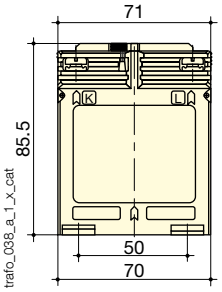
## Primary wound moulded case CT (continued)

### Dimensions

**TRB 60**

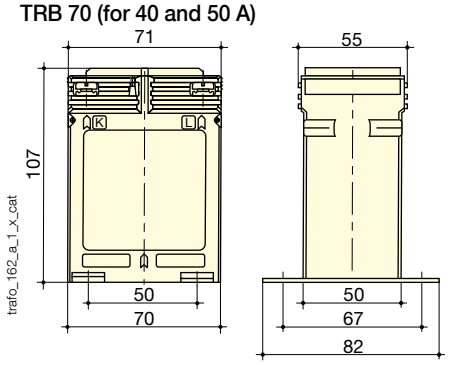



**TRB 70(1)**

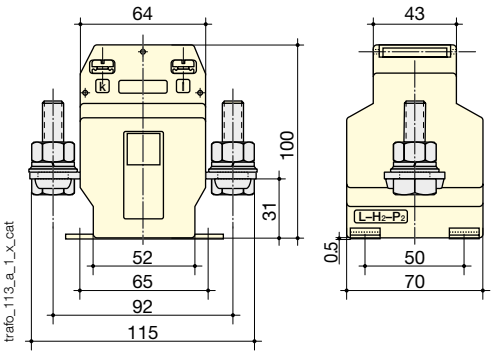



(1) different dimensions for 40 and 50 A ratings

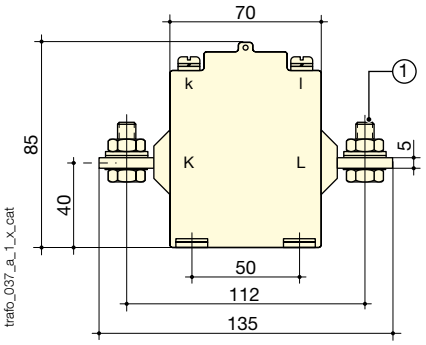
**TRB 70 (for 40 and 50 A)**




**T2RB115**

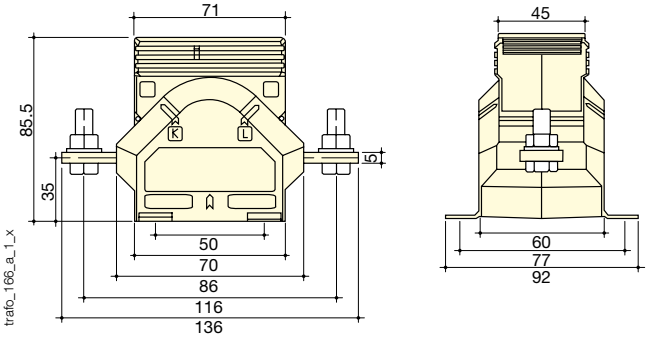



**TRB 135**




① 25 to 100 A: M8 x 25

**TRB 135 (for 125 and 150 A)**



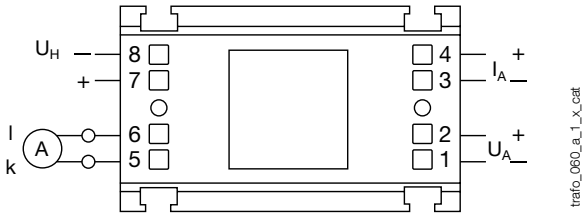

| Primary wound CT | TRB 60 | TRB 70 (1) | T2RB 115 | TRB 135 (2) |
|---|---|---|---|---|
| H x W x D (mm) | 75.5 x 61 x 35 | 85.5 x 71 x 45 | 115 x 100 x 70 | 85 x 135 x 60 |
| DIN-rail mounting | yes | yes | no | no |

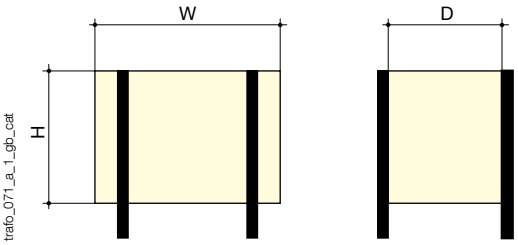
*(1) Dimensions are different for TRB 70 with 40 and 50 A ratings.*
*(2) Dimensions are different for TRB 135 with 125 and 150 A ratings.*

### Associated transducers

Transducer to be associated with adapted current transformers:

- Class 0.5.
- Input: 1 or 5 A.
- Output:
  - 0-20 mA, 0-10 V (type CEA-VA)
  - 4-20 mA, 0-10 V (type CEA-VA4)
- Self-supplied or auxiliary power supply 24 VDC or 230 VAC.
- 3 sizes according to the CT: type 1, 2 or 3.




**Dimensions (mm)**

| Converter | For CT | Height (mm) | Width (mm) | Depth (mm) |
|---|---|---|---|---|
| Type 1 | TRB 60 | 50.5 | 60 | 32.5 |
| Type 2 | TRB 70 | 50 | 70 | 43 |

# Cable-through CT

## References

| Primary | Secondary(1) | TCA 14 Class 1 | TCA 14 Reference | TCA 21 Class 1 | TCA 21 Class 0.5 | TCA 21 Reference | TCA 22 Class 1 | TCA 22 Reference | T2CA 225 Class 0.2s | T2CA 225 Reference |
|---|---|---|---|---|---|---|---|---|---|---|
| 40 A | 5 A | 1 | 192T **1404** | | | | | | | |
| 50 A | 5 A | 1 | 192T **1405** | | | | | | | |
| 60 A | 5 A | 1.5 | 192T **1406** | 1 VA | | 192T **2006** | | | | |
| 75 A | 5 A | 1.5 | 192T **1407** | 1.5 VA | | 192T **2007** | | | | |
| 80 A | 5 A | | | 1.5 VA | | 192T **2008** | | | | |
| 100 A | 5 A | 2.5 | 192T **1410** | | 1.5 VA | 192T **2010** | 1 VA | 192T **2022** | | |
| 125 A | 5 A | 2.5 | 192T **1412** | | 1.5 VA | 192T **2012** | | | | |
| 150 A | 5 A | 2.5 | 192T **1415** | | 1.5 VA | 192T **2015** | 1.5 VA | 192T **2023** | 1.5 VA | 192U **2215** |
| 200 A | 5 A | | | | 2.5 VA | 192T **2020** | 2.5 VA | 192T **2024** | 2.5 VA | 192U **2220** |
| 250 A | 5 A | | | | 2.5 VA | 192T **2016** | 3.75 VA | 192T **2025** | 5 VA | 192U **2225** |
| 300 A | 5 A | | | | 2.5 VA | 192T **2017** | 3.75 VA | 192T **2030** | 5 VA | 192U **2230** |
| 400 A | 5 A | | | | | | 5 VA | 192T **2034** | 5 VA | 192U **2240** |
| 500 A | 5 A | | | | | | 5 VA | 192T **2035 (2)** | 10 VA | 192U **2250** |
| 600 A | 5 A | | | | | | 5 VA | 192T **2036 (2)** | 10 VA | 192U **2260** |

*(1) Secondary 1 A: on request.* *(2) Dimensions of T2CA 225*

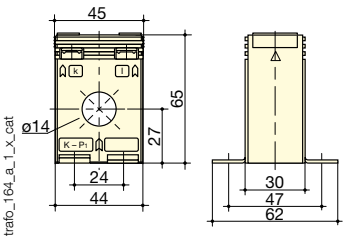
## Accessories

| Description of accessories | TCA 14 Reference | TCA 21 Reference | TCA 22 Reference | T2CA 225 Reference |
|---|---|---|---|---|
| DIN-rail mounting | 192T **0006** | 192T **0006** | 192T **0007** | 192T **0003** |
| Guide tube Ø 8.5 mm (1) | | 192T **0020** | | |
| Guide tube Ø 12.5 mm(1) | | 192T **0021** | 192T **0023** | |
| Guide tube Ø 16.5 mm(1) | | | 192T **0024** | |
| Sealable cover | | | | 192T **0105** |

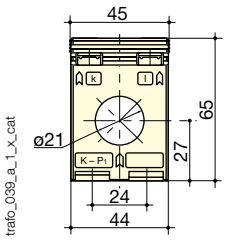
*(1) For centralising cables within the CT aperture.*

## Dimensions

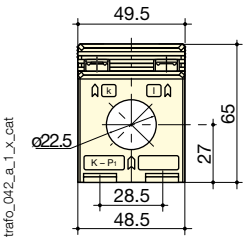
TCA 14



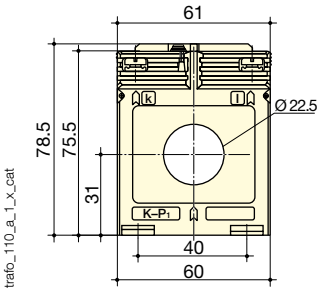

TCA 21




TCA 22




T2CA 225




| Cable-through CT | TCA 14 | TCA 21 | TCA 22(1) | T2CA 225 |
|---|---|---|---|---|
| Ø cable (mm) | 14 | 21 | 22.5 | 22.5 |
| H x W x D (mm) | 65 x 45 x 30 | 65 x 45 x 30 | 65 x 49.5 x 35 | 78.5 x 61 x 35 |
| DIN-rail mounting | yes | yes | yes | yes |

*(1) Dimensions are different for 600 A: 78.5x61x35.*

## Bar or cable-through CT

### References

| Primary | Secondary[1] | TCB 17-20 Class 1 | TCB 17-20 Reference | TCB 26-30 Class 0.5 | TCB 26-30 Class 1 | TCB 26-30 Reference | T2CB 26-30 Class 0.2s | T2CB 26-30 Reference | TCB 28-30 Class 0.5 | TCB 28-30 Class 1 | TCB 28-30 Reference |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 A | 5 A | | | | 1 VA | 192T **2305** | | | | | |
| 60 A | 5 A | 1 VA | 192T **2106** | | 1 VA | 192T **2306** | | | | | |
| 75 A | 5 A | 1 VA | 192T **2107** | | 1.5 VA | 192T **2307** | | | | | |
| 80 A | 5 A | 1.25 VA | 192T **2108** | | 1.5 VA | 192T **2308** | | | | 1.25 VA | 192T **2408** |
| 100 A | 5 A | 1.5 VA | 192T **2110** | 1.5 VA | | 192T **2310** | | | | 1.5 VA | 192T **2410** |
| 125 A | 5 A | 1.5 VA | 192T **2112** | 1.5 VA | | 192T **2312** | | | | 2.5 VA | 192T **2412** |
| 150 A | 5 A | 2.5 VA | 192T **2115** | 1.5 VA | | 192T **2315** | 1.5 VA | 192U **2315** | | 2.5 VA | 192T **2415** |
| 160 A | 5 A | 2.5 VA | 192T **2116** | | | | | | | | |
| 200 A | 5 A | 2.5 VA | 192T **2120** | 2.5 VA | | 192T **2320** | 2.5 VA | 192U **2320** | 2.5 VA | | 192T **2420** |
| 250 A | 5 A | 5 VA | 192T **2125** | 5 VA | | 192T **2325** | 2.5 VA | 192U **2325** | 2.5 VA | | 192T **2425** |
| 300 A | 5 A | 5 VA | 192T **2130** | 5 VA | | 192T **2330** | 5 VA | 192U **2330** | 2.5 VA | | 192T **2430** |
| 400 A | 5 A | 5 VA | 192T **2140** | 5 VA | | 192T **2340** | 5 VA | 192U **2340** | 5 VA | | 192T **2440** |
| 500 A | 5 A | | | 5 VA | | 192T **2350** | 5 VA | 192U **2350** | 5 VA | | 192T **2450** |
| 600 A | 5 A | | | 5 VA | | 192T **2360** | 5 VA | 192U **2360** | | | |
| 750 A | 5 A | | | 5 VA | | 192T **2375** | 5 VA | 192U **2375** | | | |

*(1) Secondary 1 A: on request.*

| Primary | Secondary[1] | TCB 26-40 Class 1 | TCB 26-40 Reference | TCB 32-40 Class 0.5 | TCB 32-40 Class 1 | TCB 32-40 Reference | T2CB 32-40 Class 0.2s | T2CB 32-40 Reference |
|---|---|---|---|---|---|---|---|---|
| 75 A | 5 A | | | | 1.5 VA | 192T **4007** | | |
| 100 A | 5 A | 1.5 VA | 192T **3210** | 1.5 VA | | 192T **4010** | | |
| 125 A | 5 A | 2.5 VA | 192T **3212** | 1.5 VA | | 192T **4012** | | |
| 150 A | 5 A | 2.5 VA | 192T **3215** | 2.5 VA | | 192T **4015** | | |
| 160 A | 5 A | 2.5 VA | 192T **3216** | | | | | |
| 200 A | 5 A | 2.5 VA | 192T **3220** | 5 VA | | 192T **4020** | 2.5 VA | 192U **4020** |
| 250 A | 5 A | 2.5 VA | 192T **3225** | 5 VA | | 192T **4025** | 5 VA | 192U **4025** |
| 300 A | 5 A | 5 VA | 192T **3230** | 10 VA | | 192T **4030** | 5 VA | 192U **4030** |
| 400 A | 5 A | 5 VA | 192T **3240** | 10 VA | | 192T **4040** | 5 VA | 192U **4040** |
| 500 A | 5 A | 5 VA | 192T **3250** | 10 VA | | 192T **4050** | 5 VA | 192U **4050** |
| 600 A | 5 A | 5 VA | 192T **3260** | 10 VA | | 192T **4060** | 5 VA | 192U **4060** |
| 750 A | 5 A | 10 VA | 192T **3275** | 10 VA | | 192T **4075** | 5 VA | 192U **4075** |
| 800 A | 5 A | | | 10 VA | | 192T **4080** | | |
| 1000 A | 5 A | | | 10 VA | | 192T **4090** | | |

*(1) Secondary 1 A: on request.*

### Accessories

| Description of accessories | TCB 17-20 Reference | TCB 26-30 Reference | TCB 26-40 Reference | TCB 32-40 Reference |
|---|---|---|---|---|
| DIN-rail mounting | 192T **0007** | 192T **0003** | 192T **0003** | 192T **0005** |
| Sealable cover | | 192T **0105** | 192T **0105** | 192T **0103** |

#### CT Plug-in transducer (CEA-VA)

| Power supply | Output | TCB 26-30 Reference | TCB 26-40 Reference | TCB 32-40 Reference |
|---|---|---|---|---|
| Self-supplied | 0-20 mA / 0-10 VDC | 192Y **0015** | 192Y **0015** | 192Y **0035** |
| 230 VAC | 0-20 mA / 0-10 VDC | 192Y **0215** | 192Y **0215** | 192Y **0235** |
| 24 VDC | 0-20 mA / 0-10 VDC | 192Y **0115** | 192Y **0115** | 192Y **0135** |

#### CT Plug-in transducer (CEA-VA4)

| Power supply | Output | TCB 26-30 Reference | TCB 26-40 Reference | TCB 32-40 Reference |
|---|---|---|---|---|
| 230 VAC | 4-20 mA / 0-10 VDC | 192T **0255** | 192T **0255** | 192Y **0275** |
| 24 VDC | 4-20 mA / 0-10 VDC | 192Y **0155** | 192Y **0155** | 192Y **0175** |

## References

| Primary | Secondary(1) | TCB 44-50 Class 0.5 | TCB 44-50 Reference | TCB 44-63 Class 0.5 | TCB 44-63 Reference | T2CB 44-63 Class 0.2s | T2CB 44-63 Reference |
|---|---|---|---|---|---|---|---|
| 150 A | 5 A | 1.5 VA | 192T **5015** | | | | |
| 200 A | 5 A | 2.5 VA | 192T **5020** | 1.5 VA | 192T **6420** | | |
| 250 A | 5 A | 5 VA | 192T **5025** | 1.5 VA | 192T **6425** | | |
| 300 A | 5 A | 5 VA | 192T **5030** | 2.5 VA | 192T **6430** | 5 VA | 192U **6430** |
| 400 A | 5 A | 10 VA | 192T **5040** | 5 VA | 192T **6440** | 5 VA | 192U **6440** |
| 500 A | 5 A | 10 VA | 192T **5050** | 10 VA | 192T **6450** | 10 VA | 192U **6450** |
| 600 A | 5 A | 10 VA | 192T **5060** | 10 VA | 192T **6460** | 10 VA | 192U **6460** |
| 750 A | 5 A | 10 VA | 192T **5075** | 10 VA | 192T **6475** | 10 VA | 192U **6475** |
| 800 A | 5 A | 15 VA | 192T **5080** | 10 VA | 192T **6480** | | |
| 1000 A | 5 A | 15 VA | 192T **5090** | 15 VA | 192T **6490** | 10 VA | 192U **6490** |
| 1200 A | 5 A | 15 VA | 192T **5092** | 15 VA | 192T **6492** | 10 VA | 192U **6492** |
| 1250 A | 5 A | 15 VA | 192T **5095** | 15 VA | 192T **6493** | 10 VA | 192U **6493** |
| 1500 A | 5 A | | | 15 VA | 192T **6495** | 10 VA | 192U **6495** |
| 1600 A | 5 A | | | 15 VA | 192T **6494** | | |

*(1) Secondary 1 A: on request.*

| Primary | Secondary(1) | TCB 55-80 Class 0.5 | TCB 55-80 Reference | TCB 85-100 Class 0.5 | TCB 85-100 Reference | TCB 100-125 Class 0.5 | TCB 100-125 Reference |
|---|---|---|---|---|---|---|---|
| 400 A | 5 A | 2.5 VA | 192T **8140** | | | | |
| 500 A | 5 A | 5 VA | 192T **8150** | | | | |
| 600 A | 5 A | 5 VA | 192T **8160** | | | | |
| 750 A | 5 A | 10 VA | 192T **8175** | 2.5 VA | 192T **9675** | | |
| 800 A | 5 A | 10 VA | 192T **8180** | 5 VA | 192T **9680** | | |
| 1000 A | 5 A | 15 VA | 192T **8190** | 10 VA | 192T **9690** | 5 VA | 192T **9590** |
| 1200 A | 5 A | 15 VA | 192T **8192** | 10 VA | 192T **9692** | 10 VA | 192T **9592** |
| 1250 A | 5 A | 15 VA | 192T **8193** | 15 VA | 192T **9693** | 10 VA | 192T **9593** |
| 1500 A | 5 A | 15 VA | 192T **8195** | 15 VA | 192T **9695** | 15 VA | 192T **9595** |
| 1600 A | 5 A | 15 VA | 192T **8194** | 15 VA | 192T **9694** | | |
| 2000 A | 5 A | 15 VA | 192T **8196** | 30 VA | 192T **9696** | 30 VA | 192T **9596** |
| 2500 A | 5 A | | | 30 VA | 192T **9697** | 30 VA | 192T **9597** |
| 3000 A | 5 A | | | 30 VA | 192T **9698** | 30 VA | 192T **9598** |

*(1) Secondary 1 A: on request.*

## Accessories

| Description of accessories | TCB 44-50 Reference | TCB 44-63 Reference | TCB 55-80 Reference | TCB 85-100 Reference | TCB 100-125 Reference |
|---|---|---|---|---|---|
| Sealable cover | 192T **0102** | 192T **0102** | 192T **0102** | 192T **0106** | 192T **0106** |

### CT Plug-in transducer (CEA-VA)

| Power supply | Output | TCB 44-50 Reference | TCB 44-63 Reference | TCB 55-80 Reference |
|---|---|---|---|---|
| Self-supplied | 0-20 mA / 0-10 VDC | | 192Y **0045** | 192Y **0045** |
| 230 VAC | 0-20 mA / 0-10 VDC | | 192Y **0245** | 192Y **0245** |
| 24 VDC | 0-20 mA / 0-10 VDC | | 192Y **0145** | 192Y **0145** |

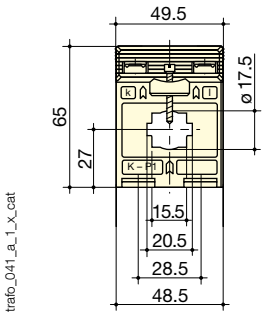
### CT Plug-in transducer (CEA-VA4)

| Input | Output | TCB 44-50 Reference | TCB 44-63 Reference | TCB 55-80 Reference |
|---|---|---|---|---|
| 230 VAC | 4-20 mA / 0-10 VDC | | 192Y **0285** | 192Y **0285** |
| 24 VDC | 4-20 mA / 0-10 VDC | | 192Y **0185** | 192Y **0185** |

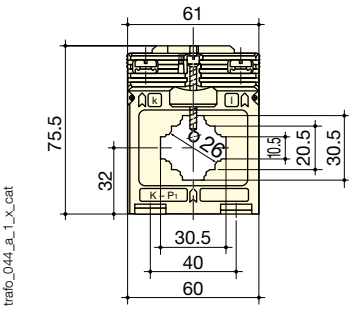
## Bar or cable-through CT (continued)

### Dimensions

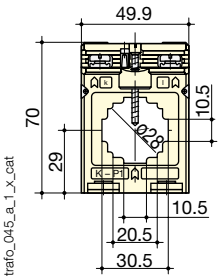
**TCB 17-20**



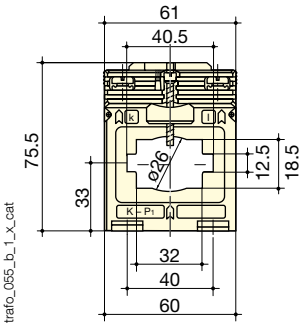

**TCB 26-30 and T2CB 26-30**



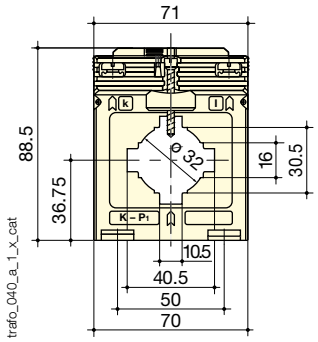

**TCB 28-30**



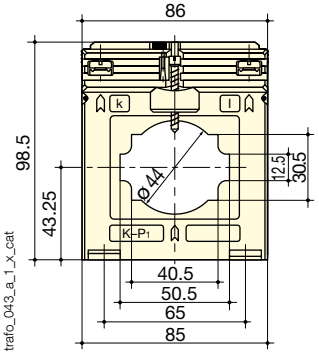

**TCB 26-40**



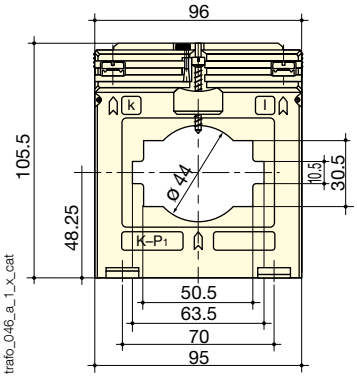

**TCB 32-40 and T2CB 32-40**



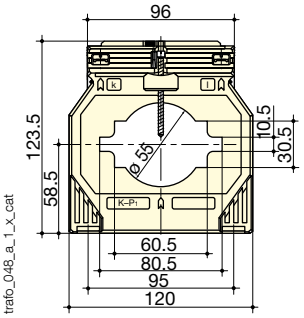

**TCB 44-50**



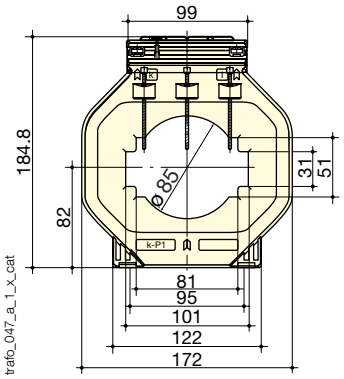

**TCB 44-63 and T2CB 44-63**



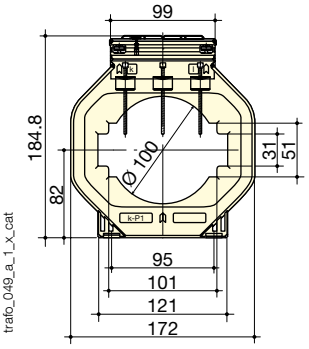

**TCB 55-80**




**TCB 85-100**




**TCB 100-125**




| Bar or cable-through CT | TCB 17-20 | TCB 26-30 | T2CB 26-30 | TCB 26-40 | TCB 28-30 | TCB 32-40 | T2CB 32-40 |
|---|---|---|---|---|---|---|---|
| Bar (mm) | 20 x 5 (x 1) | 30 x 10 (x 1) / 20 x 10 (x 1…2) | 30 x 10 (x 1) / 20 x 10 (x 1…2) | 40 x 12 (x 1) / 32 x 18 (x 1) | 30 x 10 (x 1) | 40 x 10 (x 1) / 30 x 5 (x 1…2) | 40 x 10 (x 1) / 30 x 5 (x 1…2) |
| Ø cable (mm) | 17.5 | 26 | 26 | 26 | 28 | 32 | 32 |
| H x W x D (mm) | 65 x 49.5 x 50 | 75.5 x 61 x 48 | 75.5 x 61 x 48 | 75.5 x 61 x 48 | 70 x 49.9 x 68 | 88.5 x 71 x 58 | 88.5 x 71 x 58 |
| DIN-rail mounting | yes | yes | yes | yes | | yes | yes |

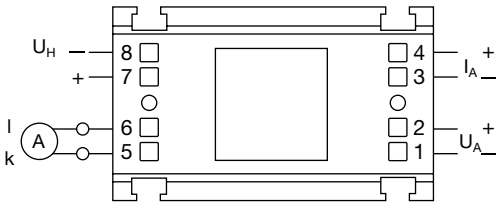
| Bar or cable-through CT | TCB 44-50 | TCB 44-63 | T2CB 44-63 | TCB 55-80 | TCB 85-100 | TCB 100-125 |
|---|---|---|---|---|---|---|
| Bar (mm) | 50 x 12 (x 1)/ 40 x 10 (x 1…2) | 63 x 10 (x 1)/ 50 x 10 (x 1…2) | 63 x 10 (x 1)/ 50 x 10 (x 1…2) | 80 x 10 (x 1)/ 60 x 30 (x 1) / 60 x 10 (x 1…2) | 100 x 10 (x 1…2) / 80 x 10 (x 1…3) | 123 x 30 (x 1)/ 100 x 10 (x 1…3) |
| Ø cable (mm) | 44 | 44 | 44 | 55 | 85 | 100 |
| H x W x D (mm) | 98.5 x 86 x 58 | 105.5 x 96 x 58 | 105.5 x 96 x 58 | 123.5 x 120 x 58 | 184.5 x 172 x 52 | 184.5 x 172 x 52 |

## Associated transducers

trafo_074_a_1_cat

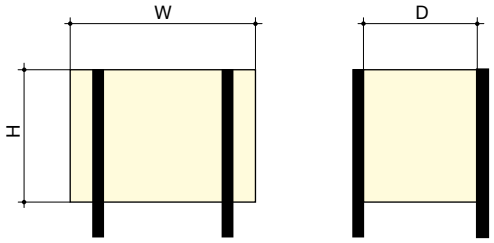
*Transducer to be associated with adapted current transformers:*

- *Class 0.5.*
- *Input: 1 or 5 A*
- *Output:*
  - *0-20 mA, 0-10 V (model CEA-VA),*
  - *4-20 mA, 0-10 V (model CEA-VA4),*
- *Self-supplied or auxiliary power supply 24 VDC or 230 VAC.*
- *3 sizes according to the CT: type 1, 2 or 3.*




trafo_060_a_1_x_cat

trafo_071_a_1_gb_cat




### Dimensions (mm)

| Converter | For CT | Height (mm) | Width (mm) | Depth (mm) |
|---|---|---|---|---|
| Type 1 | TCB 26-30 | 50.5 | 60 | 32.5 |
| Type 1 | TCB 26-40 | 50.5 | 60 | 32.5 |
| Type 2 | TCB 32-40 | 50 | 70 | 43 |
| Type 3 | TCB 44-63 | 50.5 | 95 | 43 |
| Type 3 | TCB 55-80 | 50.5 | 95 | 43 |

# Current transformers

Measurement devices

from 5 to 5000 A

## Bar-through CT

### References

| | | TBA 60 | | | TBA 80 | | TBA 100 | | T2BA 100 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Primary | Secondary | Class 0.5 | Class 1 | Reference | Class 0.5 | Reference | Class 0.5 | Reference | Class 0.2s | Reference |
| 200 A | 5 A | | 2.5 VA | 192T **7020** | | | | | | |
| 250 A | 5 A | 2.5 VA | | 192T **7025** | | | | | | |
| 300 A | 5 A | 2.5 VA | | 192T **7030** | 2.5 VA | 192T **7530** | | | | |
| 400 A | 5 A | 5 VA | | 192T **7040** | 5 VA | 192T **7540** | | | | |
| 500 A | 5 A | 5 VA | | 192T **7050** | 5 VA | 192T **7550** | | | | |
| 600 A | 5 A | 10 VA | | 192T **7060** | 5 VA | 192T **7560** | 5 VA | 192T **8060** | | |
| 750 A | 5 A | 10 VA | | 192T **7075** | 5 VA | 192T **7575** | 5 VA | 192T **8075** | | |
| 800 A | 5 A | 10 VA | | 192T **7080** | 10 VA | 192T **7580** | 5 VA | 192T **8080** | | |
| 1000 A | 5 A | 15 VA | | 192T **7090** | 15 VA | 192T **7590** | 5 VA | 192T **8090** | | |
| 1200 A | 5 A | 15 VA | | 192T **7092** | 15 VA | 192T **7592** | 10 VA | 192T **8092** | 5 VA | 192U **8092** |
| 1250 A | 5 A | 15 VA | | 192T **7093** | 15 VA | 192T **7593** | 10 VA | 192T **8093** | 5 VA | 192U **8093** |
| 1500 A | 5 A | 15 VA | | 192T **7095** | 15 VA | 192T **7595** | 15 VA | 192T **8095** | 5 VA | 192U **8095** |
| 1600 A | 5 A | 15 VA | | 192T **7094** | 15 VA | 192T **7594** | 15 VA | 192T **8094** | | |
| 2000 A | 5 A | | | | 15 VA | 192T **7596** | 15 VA | 192T **8096** | 5 VA | 192U **8096** |
| 2500 A | 5 A | | | | | | 30 VA | 192T **8097** | 10 VA | 192U **8097** |
| 3000 A | 5 A | | | | | | 30 VA | 192T **8098** (1) | 10 VA | 192U **8098** |
| 4000 A | 5 A | | | | | | 30 VA | 192T **8099** (1) | | |

*(1) Dimensions are different for TBA 100 with 3000 and 4000 A primary.*

| | | TBA 103 | | T2BA 103 | | TBA 127 | | T2BA 127 | |
|---|---|---|---|---|---|---|---|---|---|
| Primary | Secondary | Class 0.5 | Reference | Class 0.2s | Reference | Class 0.5 | Reference | Class 0.2s | Reference |
| 400 A | 5 A | 2.5 VA | 192T **9340** | | | 2.5 VA | 192T **9740** | | |
| 500 A | 5 A | 2.5 VA | 192T **9350** | | | 2.5 VA | 192T **9750** | | |
| 600 A | 5 A | 2.5 VA | 192T **9360** | | | 2.5 VA | 192T **9760** | | |
| 750 A | 5 A | 2.5 VA | 192T **9375** | | | 2.5 VA | 192T **9775** | | |
| 800 A | 5 A | 5 VA | 192T **9380** | | | 5 VA | 192T **9780** | | |
| 1000 A | 5 A | 10 VA | 192T **9390** | 5 VA | 192U **9390** | 10 VA | 192T **9790** | | |
| 1200 A | 5 A | 10 VA | 192T **9392** | 5 VA | 192U **9392** | 10 VA | 192T **9792** | 5 VA | 192U **9792** |
| 1250 A | 5 A | 10 VA | 192T **9393** | 5 VA | 192U **9393** | 10 VA | 192T **9793** | 5 VA | 192U **9793** |
| 1500 A | 5 A | 15 VA | 192T **9395** | 5 VA | 192U **9395** | 15 VA | 192T **9795** | 5 VA | 192U **9795** |
| 1600 A | 5 A | 10 VA | 192T **9394** | | | 15 VA | 192T **9794** | | |
| 2000 A | 5 A | 15 VA | 192T **9396** | | | 15 VA | 192T **9796** | 5 VA | 192U **9796** |
| 2500 A | 5 A | | | | | 15 VA | 192T **9797** | | |
| 3000 A | 5 A | | | | | 25 VA | 182T **9798 (1)** | | |
| 4000 A | 5 A | | | | | 30 VA | 182T **9799 (1)** | | |

*(1) Replacement model TRA 127 for this rating.*

### Accessories

| Description of accessories | TBA 60 Reference | TBA 80 Reference | TBA 100 Reference | T2BA 100 Reference | TBA 103 Reference | T2BA 103 Reference | TBA 127 Reference | T2BA 127 Reference |
|---|---|---|---|---|---|---|---|---|
| Sealable cover | 192T **0102** | | 192T **0102** | 192T **0102** | | | 192T **0102** | 192T **0102** |

#### CT Plug-in transducer (CEA-VA)

| Power supply | Output | TBA 100 Reference |
|---|---|---|
| Self-supplied | 0-20 mA / 0-10 VDC | 192Y **0045** |
| 230 VAC | 0-20 mA / 0-10 VDC | 192Y **0245** |
| 24 VDC | 0-20 mA / 0-10 VDC | 192Y **0145** |

#### CT Plug-in transducer (CEA-VA4)

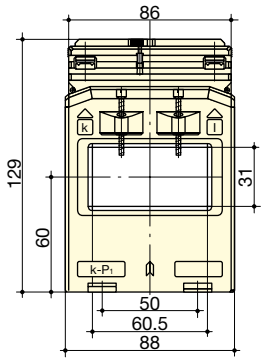
| Power supply | Output | TBA 100 Reference |
|---|---|---|
| 230 VAC | 4-20 mA / 0-10 VDC | 192Y **0285** |
| 24 VDC | 4-20 mA / 0-10 VDC | 192Y **0185** |



socomec Innovative Power Solutions

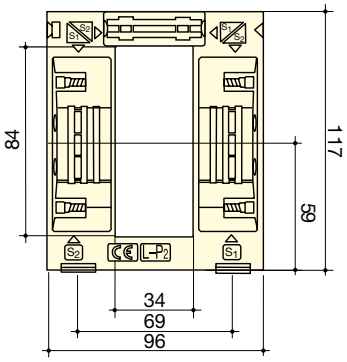
## Dimensions

**TBA 60**



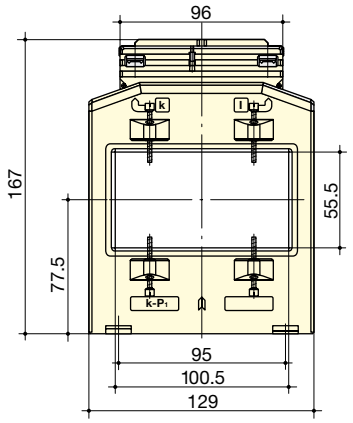

trafo_050_a_1_x_cat

**TBA 80**
300 to 2000 A




trafo_059_a_1_x_cat

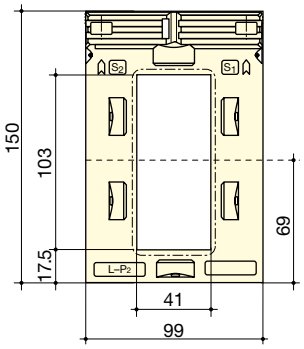
**TBA 100** 600 to 2500 A[1]
**T2BA 100** 1200 to 3000 A




trafo_082_a_1_x_cat

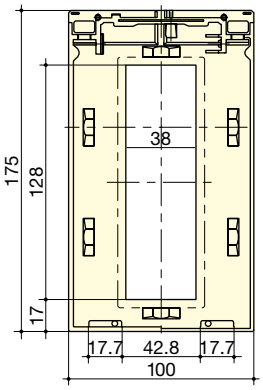
*(1) TBA 100, 3000 and 4000 A: 214 x 129 x 78 mm.*

**TBA 103 and T2BA 103**




trafo_054_a_1_x_cat

**TBA 127 and T2BA 127**




trafo_052_a_1_x_cat

| Bar-through CT | TBA 60 | TBA 80 | TBA 100 | T2BA 100 | TBA 103 | T2BA 103 | TBA 127 | T2BA 127 |
|---|---|---|---|---|---|---|---|---|
| Bar (mm) | 60 x 30 | 84 x 34 | 100 x 55 | 100 x 55 | 103 x 41 | 103 x 41 | 128 x 38 | 128 x 38 |
| H x W x D (mm) | 129 x 88 x 78 | 117 x 96 x 68 | 167 x 129 x 78 [1] | 167 x 129 x 78 | 150 x 99 x 58 | 150 x 99 x 58 | 175 x 100 x 55 | 175 x 100 x 55 |

*(1) TBA 100, 3000 and 4000 A: 214 x 129 x 78 mm.*

## Three-phase bar or cable-through CT

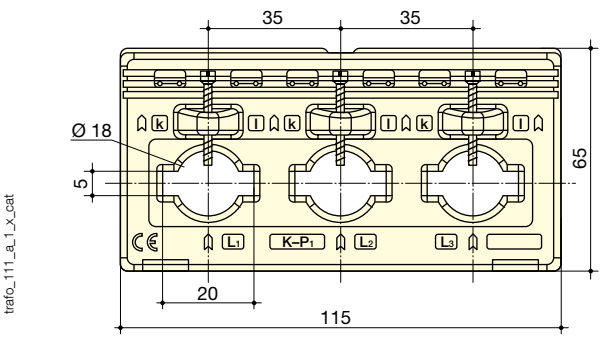
### References

| Primary | Secondary[1] | TCB3 18-20 Class 1 | TCB3 18-20 Reference | TCB3 22-30 Class 1 | TCB3 22-30 Reference |
|---|---|---|---|---|---|
| 3 x 100 A | 3 x 5 A | 1 VA | 192T **3310** | | |
| 3 x 150 A | 3 x 5 A | 1.25 VA | 192T **3315** | | |
| 3 x 200 A | 3 x 5 A | 1.5 VA | 192T **3320** | | |
| 3 x 250 A | 3 x 5 A | 2.5 VA | 192T **3325** | 2.5 VA | 192T **3425** |
| 3 x 300 A | 3 x 5 A | | | 3.75 VA | 192T **3430** |
| 3 x 400 A | 3 x 5 A | | | 5 VA | 192T **3440** |
| 3 x 500 A | 3 x 5 A | | | 5 VA | 192T **3450** |
| 3 x 600 A | 3 x 5 A | | | 5 VA | 192T **3460** |

*(1) Secondary 1 A: on request.*

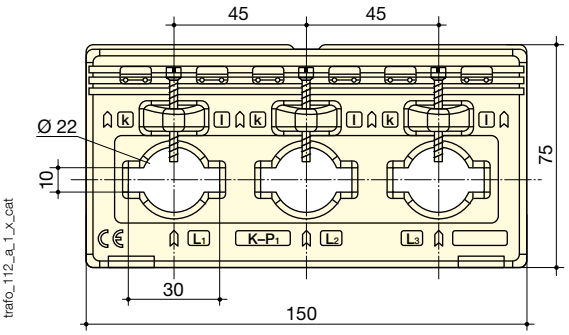
### Dimensions

**TCB3 18-20**




trafo_111_a_1_x_cat

**TCB3 22-30**




trafo_112_a_1_x_cat

| Three-phase bar or cable-through CT | TCB3 18-20 | TCB3 22-30 |
|---|---|---|
| Ø cable (mm) | 18 | 22 |
| Bar-through | 20 x 5 | 30 x 10 |
| H x W x D (mm) | 115 x 65 x 37 | 150 x 75 x 37 |
| DIN-rail mounting | no | no |

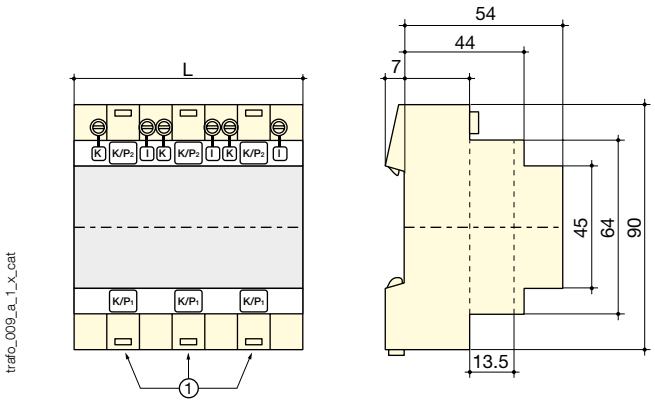
## References

| Primary | Secondary(1) | TCA 13 — 3P Class 1 | TCA 13 — 3P Reference |
|---|---|---|---|
| 3 x 50 A | 5 A | 1 VA | 192T **1905** |
| 3 x 60 A | 5 A | 1.25 VA | 192T **1906** |
| 3 x 75 A | 5 A | 1.5 VA | 192T **1907** |
| 3 x 80 A | 5 A | 1.5 VA | 192T **1908** |
| 3 x 100 A | 5 A | 2.5 VA | 192T **1910** |
| 3 x 125 A | 5 A | 2.5 VA | 192T **1912** |
| 3 x 150 A | 5 A | 2.5 VA | 192T **1915** |
| 3 x 160 A | 5 A | 2.5 VA | 192T **1916** |

*(1) Secondary 1 A: on request.*

## Dimensions

### TCA 13 — 3P




*(1) Cable-through aperture Ø 13.5 mm.*

| Number of modules | Front degree of protection | Terminal degree of protection | L (mm) | Mounting |
|---|---|---|---|---|
| 6 | IP65 | IP20 | 105 | 35 mm DIN-rail |

# Current transformers

Measurement devices

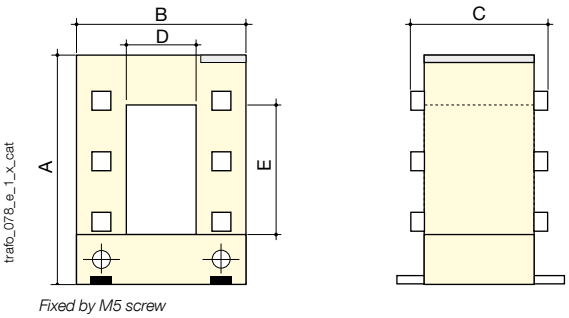
from 5 to 5000 A

## Split-core CT

### References

| | | TO 23 | | | TO 58 | | | TO 812 | | | TO 816 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Primary** | **Secondary** | **Class 1** | **Class 3** | **Reference** | **Class 0.5** | **Class 1** | **Reference** | **Class 0.5** | **Class 1** | **Reference** | **Class 0.5** | **Reference** |
| 100 A | 5 A | | 1.25 VA | 192T **4601** | | | | | | | | |
| 150 A | 5 A | | 1.5 VA | 192T **4602** | | | | | | | | |
| 200 A | 5 A | | 2.5 VA | 192T **4603** | | | | | | | | |
| 250 A | 5 A | 1.5 VA | | 192T **4604** | | 1.5 VA | 192T **4625** | | 1.5 VA | 192T **4725** | | |
| 300 A | 5 A | 3.75 VA | | 192T **4605** | | 2.5 VA | 192T **4630** | | 2.5 VA | 192T **4730** | | |
| 400 A | 5 A | 5 VA | | 192T **4606** | 1 VA | | 192T **4640** | | 2.5 VA | 192T **4740** | | |
| 500 A | 5 A | | | | 2.5 VA | | 192T **4650** | 2.5 VA | | 192T **4750** | | |
| 600 A | 5 A | | | | 2.5 VA | | 192T **4660** | 2.5 VA | | 192T **4760** | | |
| 750 A | 5 A | | | | 2.5 VA | | 192T **4675** | 2.5 VA | | 192T **4775** | | |
| 800 A | 5 A | | | | 2.5 VA | | 192T **4680** | 2.5 VA | | 192T **4780** | | |
| 1000 A | 5 A | | | | 5 VA | | 192T **4610** | 5 VA | | 192T **4710** | 10 VA | 192T **4810** |
| 1250 A | 5 A | | | | | | | 7.5 VA | | 192T **4712** | 10 VA | 192T **4812** |
| 1500 A | 5 A | | | | | | | 7.5 VA | | 192T **4715** | 10 VA | 192T **4815** |
| 1600 A | 5 A | | | | | | | | | | 10 VA | 192T **4814** |
| 2000 A | 5 A | | | | | | | | | | 10 VA | 192T **4820** |
| 2500 A | 5 A | | | | | | | | | | 10 VA | 192T **4825** |
| 3000 A | 5 A | | | | | | | | | | 15 VA | 192T **4830** |
| 4000 A | 5 A | | | | | | | | | | 15 VA | 192T **4840** |
| 5000 A | 5 A | | | | | | | | | | 15 VA | 192T **4850** |

### Dimensions




*Fixed by M5 screw*

Dimensions (mm)

| Type | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |
|---|---|---|---|---|---|
| TO 23 | 106 | 93 | 58 | 23 | 33 |
| TO 58 | 158 | 125 | 58 | 55 | 85 |
| TO 812 | 198 | 155 | 58 | 85 | 125 |
| TO 816 | 243 | 195 | 79 | 85 | 165 |

| Split-core CT | TO 23 | TO 58 | TO 812 | TO 816 |
|---|---|---|---|---|
| H x W x D (mm) | 106 x 93 x 58 | 158 x 125 x 58 | 198 x 155 x 58 | 243 x 195 x 75 |



socomec Innovative Power Solutions

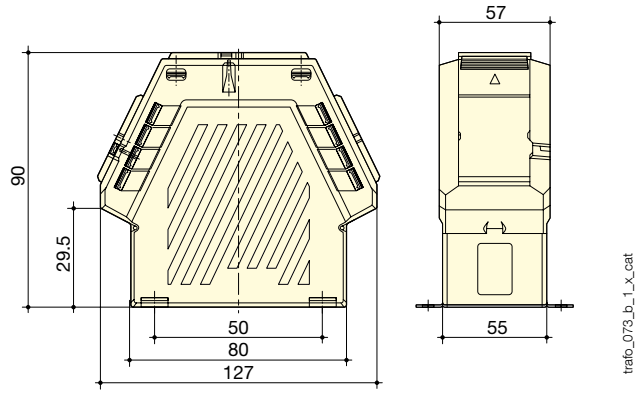
# Summation CT

## Reference

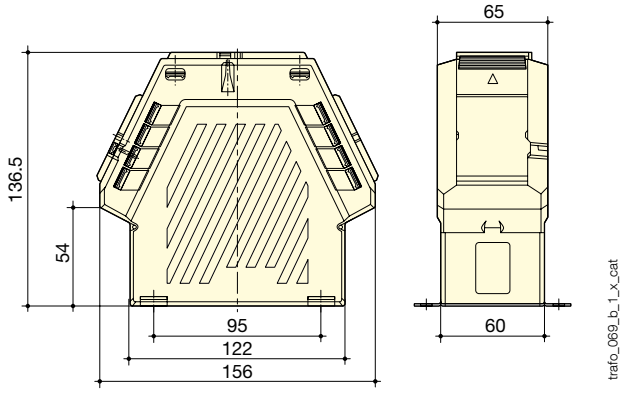
| Primary | Secondary | BSA 02 Reference | BSA 03 Reference | BSA 04 Reference |
|---|---|---|---|---|
| 5 + 5/5 A | 5 A | 192T **0802** | | |
| 5A + 5+ 5/5 | 5 A | | 192T **0803** | |
| 5 + 5 + 5 + 5/5 A | 5 A | | | 192T **0904** |

## Dimensions

**BSA 02 and BSA 03**




**BSA 04**




| Summation CT | BSA 02 | BSA 03 | BSA 04 |
|---|---|---|---|
| H x W x D (mm) | 90 x 127 x 57 | 90 x 127 x 57 | 136.5 x 156 x 65 |
| DIN-rail mounting | no | no | no |