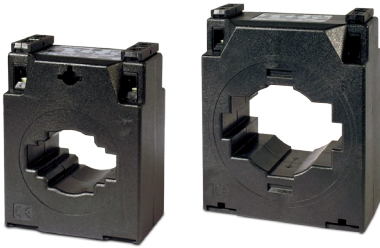


# TC

## Narrow-profile measurement current transformer



### Description

- Type: bar entrance
- Types: from 40 to 4000 A
- Internal diameter: from 20.3 to 63 mm, depending on the type
- Busbar dimensions: from 25 x 5 mm to 30 x 100 mm
- Transformer certificate sheet is attached
- DIN rail fixing accessory (Types **TC5** and **TC6**)
- Secondary coding types .../5 A (on demand .../1 A. **TC4** not available)

### Applications

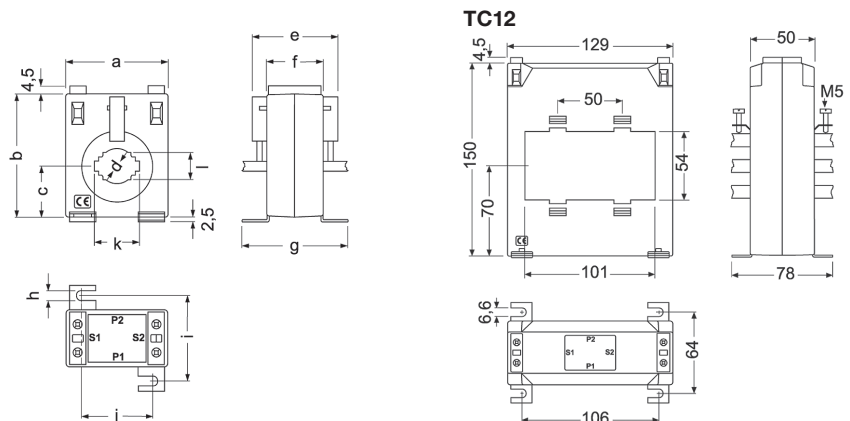
Converting a high nominal current to a lower current so that it can be measured by the unit. In installations where the electric supply can be interrupted to install transformers.

### Technical features

| Electrical features                     |   |  |
|---|---|--|
| Frequency                               | 50 / 60 Hz                              |  |
| Insulation voltage                      | 3 kVac                                  |  |
| Thermal short-circuit current, $I_{th}$ | 60 $I_n$                                |  |
| Dynamic current, $I_{dyn}$              | 2.5 $I_{th}$                            |  |
| Highest voltage for the material        | 0.72 kVac                               |  |
| Thermal class                           | B (130 °C)                              |  |
| Type of encapsulation                   | V0 self-extinguishing plastic           |  |
| Safety factor                           | FS 5                                    |  |
| Sealable secondary terminals            | Yes                                     |  |
| Secondary terminals                     | IP 20                                   |  |
| Attached to DIN rail                    | <b>TC5 and TC6</b>                      |  |
| <b>Standards</b>                        | <b>IEC 61869-1, IEC 61869-2, BS2627</b> |  |

### Dimensions

| mm | <b>TC4</b> | <b>TC5</b><br><b>TCH5</b> | <b>TC5.2</b><br><b>TCH5.2</b> | <b>TC6.2</b><br><b>TCH6.2</b> | <b>TC6</b><br><b>TCH6</b> | <b>TC8</b><br><b>TCH8</b> | <b>TC8.3</b><br><b>TCH8.3</b> | <b>TC10</b><br><b>TCH10</b> |
|----|------------|---------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|-------------------------------|-----------------------------|
| a  | 50         | 58                        | 58                            | 64                            | 64                        | 84,5                      | 84,5                          | 108                         |
| b  | 70         | 70                        | 70                            | 80,5                          | 80,5                      | 102                       | 100                           | 130                         |
| c  | 29         | 29                        | 29                            | 34                            | 34                        | 46                        | 34                            | 61                          |
| d  | 21         | 20,3                      | 22                            | 26                            | 28,5                      | 44                        | 31                            | 63                          |
| e  | 43,5       | 45                        | 45                            | 60,5                          | 66,5                      | 69                        | 60,5                          | -                           |
| f  | 30         | 32                        | 32                            | 44                            | 44                        | 50                        | 44                            | 50                          |
| g  | 56         | 59                        | 59                            | 71                            | 71,2                      | 78                        | 71                            | 78                          |
| h  | 5,5        | 5,6                       | 5,6                           | 5,6                           | 5,6                       | 6,6                       | 5,6                           | 6,6                         |
| i  | 45,5       | 48                        | 48                            | 60                            | 60                        | 64                        | 60                            | 64                          |
| j  | 31,6       | 39                        | 39                            | 46                            | 46                        | 62                        | 46                            | 86                          |
| k  | 30,5       | 25,6                      | 30,6                          | 20,6                          | 40,6                      | 60,6                      | 40,6                          | 80,6                        |
| l  | 30,5       | 15,6                      | 15,6                          | 30,6                          | 25,2                      | 30,6                      | 25,2                          | 50,8                        |



# TC

## Narrow-profile measurement current transformer

### References

| Type        | TC4                          |     |      |        | TC5                         |      |      |        | TC5,2                         |      |     |        | TC6,2                         |      |     |        | TC6                           |     |     |        |
|-------------|------------------------------|-----|------|--------|-----------------------------|------|------|--------|-------------------------------|------|-----|--------|-------------------------------|------|-----|--------|-------------------------------|-----|-----|--------|
| Busbar (mm) | 30 x 10<br>20 x 10<br>25 x 5 |     |      |        | 20 x 10<br>25 x 5<br>15 x 5 |      |      |        | 20 x 12<br>25 x 10<br>30 x 10 |      |     |        | 20 x 20<br>25 x 12<br>30 x 10 |      |     |        | 30 x 15<br>20 x 10<br>40 x 10 |     |     |        |
| A \ VA      | Class                        |     |      | Code   | Class                       |      |      | Code   | Class                         |      |     | Code   | Class                         |      |     | Code   | Class                         |     |     | Code   |
|             | 0,5                          | 1   | 3    |        | 0,5                         | 1    | 3    |        | 0,5                           | 1    | 3   |        | 0,5                           | 1    | 3   |        | 0,5                           | 1   | 3   |        |
| 40/5        | -                            | -   | -    |        | -                           | -    | 1,5  | M70311 |                               |      |     |        |                               |      |     |        |                               |     |     |        |
| 50/5        | -                            | -   | 1    | M703D5 | -                           | -    | 3    | M70312 |                               |      |     |        |                               |      |     |        |                               |     |     |        |
| 60/5        | -                            | -   | 1,25 | M703D6 | -                           | 1,25 | 3,5  | M70313 |                               |      |     |        |                               |      |     |        |                               |     |     |        |
| 75/5        | -                            | -   | 1,25 | M703D7 | -                           | 2    | 3,5  | M70314 |                               |      |     |        |                               |      |     |        |                               |     |     |        |
| 100/5       | -                            | 2   | 3    | M703D8 | 1,5                         | 2,5  | 3,75 | M70315 | -                             | 1    | 1,5 | M70321 | 1,75                          | 3,75 | 7,5 | M70341 |                               |     |     |        |
| 125/5       | -                            | 2,5 | 3,75 | M703D9 | 1,75                        | 3,5  | 5    | M70316 | -                             | 1,5  | 2   | M70322 | 3,75                          | 7,5  | 10  | M70342 |                               |     |     |        |
| 150/5       | 1,5                          | 2,5 | 4    | M703DA | 2,5                         | 3,5  | 5    | M70317 | 1                             | 2    | 2,5 | M70323 | 5                             | 7,5  | 10  | M70343 | 1                             | 3,5 | 5   | M70331 |
| 200/5       | 2,5                          | 5   | 6    | M703DB | 3,75                        | 5    | 5    | M70318 | 2,5                           | 3    | 3,5 | M70324 | 7,5                           | 10   | 10  | M70344 | 3,5                           | 5   | 7,5 | M70332 |
| 250/5       |                              |     |      |        | 5                           | 7,5  | 7,5  | M70319 | 3,5                           | 3,75 | 5   | M70325 | 7,5                           | 10   | 15  | M70345 | 5                             | 7,5 | 10  | M70333 |
| 300/5       |                              |     |      |        |                             |      |      |        | 3,5                           | 3,75 | 5   | M70326 | 10                            | 10   | 15  | M70346 | 5                             | 7,5 | 10  | M70334 |
| 400/5       |                              |     |      |        |                             |      |      |        | 3,5                           | 5    | 7,5 | M70327 | 10                            | 10   | 15  | M70347 | 5                             | 7,5 | 10  | M70335 |
| 500/5       |                              |     |      |        |                             |      |      |        | 5                             | 7,5  | 10  | M70328 | 15                            | 15   | 20  | M70348 | 7,5                           | 10  | 15  | M70336 |
| 600/5       |                              |     |      |        |                             |      |      |        | 5                             | 7,5  | 10  | M70329 | 15                            | 20   | 25  | M70349 | 7,5                           | 10  | 15  | M70337 |
| 750/5       |                              |     |      |        |                             |      |      |        |                               |      |     |        |                               |      |     |        | 10                            | 15  | 20  | M70338 |
| 800/5       |                              |     |      |        |                             |      |      |        |                               |      |     |        |                               |      |     |        | 10                            | 15  | 20  | M70339 |

| Type        | TC8.3                         |     |    |        | TC8                |     |     |        | TC10                          |     |     |        | TC12          |    |    |        |  |  |  |  |
|-------------|-------------------------------|-----|----|--------|--------------------|-----|-----|--------|-------------------------------|-----|-----|--------|---------------|----|----|--------|--|--|--|--|
| Busbar (mm) | 20 x 25<br>30 x 20<br>40 x 10 |     |    |        | 50 x 30<br>60 x 12 |     |     |        | 50 x 50<br>60 x 30<br>80 x 30 |     |     |        | 30 x 100 x 10 |    |    |        |  |  |  |  |
| A \ VA      | Class                         |     |    | Code   | Class              |     |     | Code   | Class                         |     |     | Code   | Class         |    |    | Code   |  |  |  |  |
|             | 0,5                           | 1   | 3  |        | 0,5                | 1   | 3   |        | 0,5                           | 1   | 3   |        | 0,5           | 1  | 3  |        |  |  |  |  |
| 100/5       | 5                             | 5   | 5  | M703BA |                    |     |     |        |                               |     |     |        |               |    |    |        |  |  |  |  |
| 150/5       | 5                             | 7,5 | 10 | M703BC |                    |     |     |        |                               |     |     |        |               |    |    |        |  |  |  |  |
| 200/5       | 10                            | 20  | 25 | M703B2 | 1                  | 2,5 | 5   | M7036C | 1                             | 2,5 | 5   | M7037F |               |    |    |        |  |  |  |  |
| 250/5       | 10                            | 15  | 20 | M703B1 |                    |     |     |        |                               |     |     |        |               |    |    |        |  |  |  |  |
| 300/5       | 15                            | 20  | 25 | M703B3 | 2,5                | 5   | 7,5 | M7036B | 2,5                           | 5   | 7,5 | M7037D |               |    |    |        |  |  |  |  |
| 400/5       | 15                            | 20  | 25 | M703B4 | 5                  | 7,5 | 10  | M70361 | 2,5                           | 5   | 7,5 | M7037G |               |    |    |        |  |  |  |  |
| 500/5       | 15                            | 20  | 25 | M703B5 | 7,5                | 10  | 15  | M70362 | 5                             | 7,5 | 10  | M7037B |               |    |    |        |  |  |  |  |
| 600/5       | 15                            | 20  | 25 | M703B6 | 10                 | 15  | 20  | M70363 | 7,5                           | 10  | 15  | M7037C |               |    |    |        |  |  |  |  |
| 750/5       | 20                            | 25  | 30 | M703B7 | 15                 | 20  | 25  | M70364 | 7,5                           | 10  | 15  | M7037H |               |    |    |        |  |  |  |  |
| 800/5       | 25                            | 30  | 35 | M703B8 | 15                 | 20  | 30  | M70365 | 7,5                           | 10  | 15  | M70372 | 10            | 15 | 20 | M7038B |  |  |  |  |
| 1000/5      | 25                            | 30  | 35 | M703B9 | 15                 | 20  | 30  | M70366 | 10                            | 15  | 20  | M70373 | 10            | 15 | 20 | M70381 |  |  |  |  |
| 1200/5      |                               |     |    |        | 15                 | 20  | 30  | M70367 | 10                            | 15  | 20  | M70374 | 10            | 15 | 20 | M70382 |  |  |  |  |
| 1250/5      |                               |     |    |        | 15                 | 20  | 30  | M7036A | 10                            | 15  | 20  | M7037E | 10            | 15 | 20 | M7038D |  |  |  |  |
| 1500/5      |                               |     |    |        | 15                 | 20  | 30  | M70368 | 15                            | 20  | 25  | M70375 | 15            | 20 | 30 | M70383 |  |  |  |  |
| 1600/5      |                               |     |    |        | 15                 | 20  | 30  | M70369 | 15                            | 20  | 25  | M70376 | 15            | 20 | 30 | M70384 |  |  |  |  |
| 2000/5      |                               |     |    |        |                    |     |     |        | 15                            | 20  | 25  | M70377 | 15            | 20 | 30 | M70385 |  |  |  |  |
| 2500/5      |                               |     |    |        |                    |     |     |        | 15                            | 20  | 30  | M70378 | 20            | 30 | 40 | M70386 |  |  |  |  |
| 3000/5      |                               |     |    |        |                    |     |     |        | 15                            | 20  | 30  | M70379 | 30            | 40 | 60 | M70387 |  |  |  |  |
| 3200/5      |                               |     |    |        |                    |     |     |        |                               |     |     |        | 30            | 40 | 60 | M7038C |  |  |  |  |
| 4000/5      |                               |     |    |        |                    |     |     |        |                               |     |     |        | 35            | 40 | 60 | M70388 |  |  |  |  |