



## TCH8 600/5A

TCH8 600/5A, Current transformers high accuracy and narrow section

Code: M70463. **CONSULTAR DISPONIBILIDAD**

- > Flat strip(mm): 50 x 30 | 60 x 12
- > System: Single-phase
- > Class 0,2 Power (VA): 10
- > Class 0,2S Power (VA): 5
- > Class 0,5S Power (VA): 10
- > Measurement Range (A): 600/5
- > Input current: 600 A
- > Transformer type: Closed core

### 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
- Accessory on request for fixing on DIN rail (Types **TCH6** and **TCH6.2**)
- Secondary coding types .../5 A (on demand .../1 A.)

### Application

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



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## Specifications

### Electrical characteristics

|                    |                   |
|--------------------|-------------------|
| Safety factor (SF) | FS 5              |
| Power              | 10 VA (Class 0,2) |

### Mechanical characteristics

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Size (mm) width x height x depth | 84.1 x 114 x 83 (mm)                      |
| Envelope                         | Plastic wrap V0 self-extinguishing, UL 94 |
| Weight (kg)                      | 0,59                                      |

### Environmental characteristics

|                                          |                   |
|------------------------------------------|-------------------|
| Thermal Class                            | Class B (+130 °C) |
| Protection class                         | IP 20             |
| Relative humidity (without condensation) | 15 ... 95 %       |

### Specific technical characteristics of current sensors

|                       |               |
|-----------------------|---------------|
| Inner diameter Ø (mm) | 44            |
| Operating voltage     | 0,72 kV~ max. |

### Current measurement circuit

|                                     |            |
|-------------------------------------|------------|
| Nominal frequency                   | 50 / 60 Hz |
| Primary current measurement         | 600 A      |
| Dynamic current (Idyn)              | 2,5 Ith    |
| Thermal short-circuit current (Ith) | 60 In      |
| Transformation ratio                | ... / 5 A  |

### Standards

|           |                  |
|-----------|------------------|
| Standards | IEC 44-1, BS2627 |
|-----------|------------------|

### TCH

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|---------|-------------|-----------------------|---------------------------|----------------------|-----------------------|-----------------------|
| TCH6    |             |                       |                           |                      |                       |                       |
| M70431. | TCH6 150/5A | 150/5                 | 30 x 15  20 x 10  40 x 10 | 1,25                 | 1                     | 1,5                   |
| M70432. | TCH6 200/5A | 200/5                 | 30 x 15  20 x 10  40 x 10 | 1,5                  | 1,25                  | 2                     |
| M70433. | TCH6 250/5A | 250/5                 | 30 x 15  20 x 10  40 x 10 | 1,75                 | 1,5                   | 2,25                  |
| M70434. | TCH6 300/5A | 300/5                 | 30 x 15  20 x 10  40 x 10 | 2                    | 1,75                  | 2,5                   |



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|---------|---------------|-----------------------|---------------------------|----------------------|-----------------------|-----------------------|
| M70435. | TCH6 400/5A   | 400/5                 | 30 x 15  20 x 10  40 x 10 | 5                    | 1                     | 5                     |
| M70436. | TCH6 500/5A   | 500/5                 | 30 x 15  20 x 10  40 x 10 | 7,5                  | 5                     | 7,5                   |
| M70437. | TCH6 600/5A   | 600/5                 | 30 x 15  20 x 10  40 x 10 | 7,5                  | 5                     | 7,5                   |
| M70438. | TCH6 750/5A   | 750/5                 | 30 x 15  20 x 10  40 x 10 | 10                   | 7,5                   | 10                    |
| M70439. | TCH6 800/5A   | 800/5                 | 30 x 15  20 x 10  40 x 10 | 10                   | 7,5                   | 10                    |
| TCH6.2  |               |                       |                           |                      |                       |                       |
| M70441. | TCH6.2 100/5A | 100/5                 | 20 x 20  25 x 12  30 x 10 | 1,5                  | 1                     | 2,5                   |
| M70442. | TCH6.2 125/5A | 125/5                 | 20 x 20  25 x 12  30 x 10 | 1,5                  | 1                     | 2,5                   |
| M70443. | TCH6.2 150/5A | 150/5                 | 20 x 20  25 x 12  30 x 10 | 3,5                  | 2,5                   | 3,5                   |
| M70444. | TCH6.2 200/5A | 200/5                 | 20 x 20  25 x 12  30 x 10 | 5                    | 3,5                   | 5                     |
| M70445. | TCH6.2 250/5A | 250/5                 | 20 x 20  25 x 12  30 x 10 | 5                    | 5                     | 5                     |
| M70446. | TCH6.2 300/5A | 300/5                 | 20 x 20  25 x 12  30 x 10 | 5                    | 5                     | 5                     |
| M70447. | TCH6.2 400/5A | 400/5                 | 20 x 20  25 x 12  30 x 10 | 7,5                  | 7,5                   | 7,5                   |
| M7044B. | TCH6.2 50/5A  | 50/5                  | 20 x 20  25 x 12  30 x 10 | 0,5                  |                       |                       |
| M7044C. | TCH6.2 60/5A  | 60/5                  | 20 x 20  25 x 12  30 x 10 | 0,5                  |                       |                       |
| TCH8    |               |                       |                           |                      |                       |                       |
| M70463. | TCH8 600/5A   | 600/5                 | 50 x 30  60 x 12          | 10                   | 5                     | 10                    |
| M70464. | TCH8 750/5A   | 750/5                 | 50 x 30  60 x 12          | 10                   | 7,5                   | 10                    |
| M70465. | TCH8 800/5A   | 800/5                 | 50 x 30  60 x 12          | 10                   | 7,5                   | 10                    |
| M70466. | TCH8 1000/5A  | 1000/5                | 50 x 30  60 x 12          | 15                   | 10                    | 15                    |
| M70467. | TCH8 1200/5A  | 1200/5                | 50 x 30  60 x 12          | 15                   | 10                    | 15                    |
| M70468. | TCH8 1500/5A  | 1500/5                | 50 x 30  60 x 12          | 15                   | 10                    | 15                    |
| M70469. | TCH8 1600/5A  | 1600/5                | 50 x 30  60 x 12          | 15                   | 10                    | 15                    |
| M7046A. | TCH8 1250/5A  | 1250/5                | 50 x 30  60 x 12          | 15                   | 10                    | 15                    |
| TCH10   |               |                       |                           |                      |                       |                       |
| M70472. | TCH10 800/5A  | 800/5                 | 50 x 50  60 x 30  80 x 30 | 10                   | 7,5                   | 10                    |
| M70473. | TCH10 1000/5A | 1000/5                | 50 x 50  60 x 30  80 x 30 | 10                   | 7,5                   | 10                    |
| M70474. | TCH10 1200/5A | 1200/5                | 50 x 50  60 x 30  80 x 30 | 10                   | 10                    | 10                    |
| M70475. | TCH10 1500/5A | 1500/5                | 50 x 50  60 x 30  80 x 30 | 10                   | 10                    | 15                    |
| M70476. | TCH10 1600/5A | 1600/5                | 50 x 50  60 x 30  80 x 30 | 10                   | 10                    | 15                    |
| M70477. | TCH10 2000/5A | 2000/5                | 50 x 50  60 x 30  80 x 30 | 10                   | 10                    | 15                    |
| M70478. | TCH10 2500/5A | 2500/5                | 50 x 50  60 x 30  80 x 30 | 10                   | 10                    | 15                    |
| M70479. | TCH10 3000/5A | 3000/5                | 50 x 50  60 x 30  80 x 30 | 10                   | 10                    | 15                    |
| M7047C. | TCH10 1250/5A | 1250/5                | 50 x 50  60 x 30  80 x 30 | 10                   | 10                    | 10                    |
| TCH12   |               |                       |                           |                      |                       |                       |
| M70482. | TCH12 1200/5A | 1200/5                | 100 x 50                  | 15                   | 10                    | 15                    |
| M70483. | TCH12 1500/5A | 1500/5                | 100 x 50                  | 15                   | 10                    | 15                    |
| M70484. | TCH12 1600/5A | 1600/5                | 100 x 50                  | 15                   | 10                    | 15                    |



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| M70485. | TCH12 2000/5A | 2000/5                | 100 x 50       | 15                   | 10                    | 15                    |
| M70486. | TCH12 2500/5A | 2500/5                | 100 x 50       | 20                   | 15                    | 20                    |
| M70487. | TCH12 3000/5A | 3000/5                | 100 x 50       | 25                   | 20                    | 25                    |
| M70488. | TCH12 4000/5A | 4000/5                | 100 x 50       | 30                   | 25                    | 30                    |
| M7048B. | TCH12 3200/5A | 3200/5                | 100 x 50       | 25                   | 20                    | 25                    |
| M7048C. | TCH12 1250/5A | 1250/5                | 100 x 50       | 15                   | 10                    | 15                    |

For other configurations see table of additional features



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### Dimensions

