



TCH6 800/5A

TCH6 800/5A, Current transformers high accuracy and narrow section

Code: M70439.

- > Flat strip(mm): 30 x 15 | 20 x 10 | 40 x 10
- > System: Single-phase
- > Class 0,2 Power (VA): 10
- > Class 0,2S Power (VA): 7,5
- > Class 0,5S Power (VA): 10
- > Measurement Range (A): 800/5
- > Input current: 800 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 | 72 x 87.13 x 71.1 (mm) |
| Envelope | Plastic wrap V0 self-extinguishing, UL 94 |
| Weight (kg) | 0,379 |

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) | 28,5 |
| Operating voltage | 0,72 kV~ max. |

Current measurement circuit

| | |
|-------------------------------------|------------|
| Nominal frequency | 50 / 60 Hz |
| Primary current measurement | 800 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

