



## TD12 1600/5A

TD12 1600/5A, Current transformer

Code: M7508L.

- > Flat strip(mm): 100 x 50
- > Inner diameter (mm): 50
- > System: Single-phase
- > Class 0,5 Power (VA): 7,5
- > Class 1 Power (VA): 15
- > Class 3 Power (VA): 20
- > Measurement Range (A): 1600/5
- > Input current: 1600A
- > Transformer type: Closed core

### Description

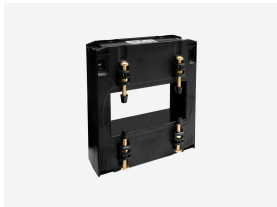
The **TD** series transformers are current transformers with an improved design that meet all the needs of today's installations. They are versatile devices when it comes to mounting and fixing, and they are sealable, with the aim of avoiding any manipulation.

Main features:

- Type: bar entrance
- From 40 to 4000 A
- Test Report
- DIN rail fixing accessory
- Sealable
- Secondary .../5 A, .../1 A and .../250 mA (consult availability)
- Diameters from 21 to 63 mm

### Application

These transformers have been conceived to convert nominal currents in any installation to current values adjusted to measurement devices.



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## Specifications

### Electrical characteristics

|                                            |                                                     |
|--------------------------------------------|-----------------------------------------------------|
| Safety factor (SF)                         | 5                                                   |
| Power                                      | 7.5 VA (Class 0.5), 15 VA (Class 1), 20VA (Class 3) |
| Insulation voltage between terminals S1-S2 | 3 kV                                                |

### Mechanical characteristics

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Size (mm) width x height x depth | 134 x 151 x 69 (mm)                       |
| Envelope                         | Plastic wrap V0 self-extinguishing, UL 94 |
| Fastening                        | DIN rail with accessory                   |
| Weight (kg)                      | 0,94                                      |

### Environmental characteristics

|                                          |                   |
|------------------------------------------|-------------------|
| Thermal Class                            | Class B (+130 °C) |
| Protection class                         | IP 20             |
| Relative humidity (without condensation) | 15 ... 95 %       |
| Storage temperature                      | -40 ... +85 °C    |
| Working temperature                      | -5 ... +40 °C     |

### Specific technical characteristics of current sensors

|                   |               |
|-------------------|---------------|
| Operating voltage | 0,72 kV~ máx. |
|-------------------|---------------|

### Current measurement circuit

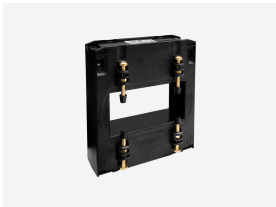
|                                     |           |
|-------------------------------------|-----------|
| Primary current measurement         | 1600 A    |
| Dynamic current (Idyn)              | 2,5 Ith   |
| Thermal short-circuit current (Ith) | 60 In     |
| Transformation ratio                | ... / 5 A |

### Standards

|                                       |                          |
|---------------------------------------|--------------------------|
| Electrical safety, Maximum height (m) | 2000                     |
| Standards                             | IEC 61869-1, IEC 61869-2 |

TD  
Current transformers narrow section

| CODE    | TYPE      | Useful cross-section (mm) | Flat strip(mm) | Class 0,5 Power (VA) | Class 1 Power (VA) | Class 3 Power (VA) | Measurement Range (A) |
|---------|-----------|---------------------------|----------------|----------------------|--------------------|--------------------|-----------------------|
| TD4     |           |                           |                |                      |                    |                    |                       |
| M75011. | TD4 40/5A | 20                        |                | -                    | -                  | 1,25               | 40/5                  |

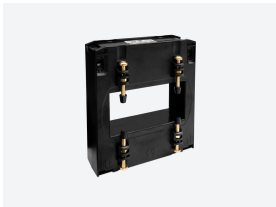


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|---------|--------------|---------------------------|-----------------------------|----------------------|--------------------|--------------------|-----------------------|
| M75012. | TD4 50/5A    | 20                        |                             | -                    | 1                  | 1,5                | 50/5                  |
| M75013. | TD4 60/5A    | 20                        |                             | -                    | 1,25               | 2,5                | 60/5                  |
| M75014. | TD4 75/5A    | 20                        |                             | -                    | 1,5                | 3,75               | 75/5                  |
| M75015. | TD4 100/5A   | 20                        |                             | 1,5                  | 2,5                | 5                  | 100/5                 |
| M75016. | TD4 125/5A   | 20                        |                             | 2,5                  | 3,75               | 5                  | 125/5                 |
| M75017. | TD4 150/5A   | 20                        |                             | 3,75                 | 5                  | 5                  | 150/5                 |
| M75018. | TD4 200/5A   | 20                        |                             | 5                    | 7,5                | 7,5                | 200/5                 |
| TD5     |              |                           |                             |                      |                    |                    |                       |
| M75022. | TD5 50/5A    | 20                        | 15 x 15   20 x 10   25 x 5  | -                    | 0,5                | 1,5                | 50/5                  |
| M75023. | TD5 60/5A    | 20                        | 15 x 15   20 x 10   25 x 5  | -                    | 1                  | 2,5                | 60/5                  |
| M75024. | TD5 75/5A    | 20                        | 15 x 15   20 x 10   25 x 5  | -                    | 1,5                | 3,5                | 75/5                  |
| M75025. | TD5 100/5A   | 20                        | 15 x 15   20 x 10   25 x 5  | 1,5                  | 2,5                | 3,75               | 100/5                 |
| M75026. | TD5 125/5A   | 20                        | 15 x 15   20 x 10   25 x 5  | 1,5                  | 2,5                | 3,75               | 125/5                 |
| M75027. | TD5 150/5A   | 20                        | 15 x 15   20 x 10   25 x 5  | 1,5                  | 2,5                | 3,75               | 150/5                 |
| M75028. | TD5 200/5A   | 20                        | 15 x 15   20 x 10   25 x 5  | 2,5                  | 3,75               | 5                  | 200/5                 |
| M75029. | TD5 250/5A   | 20                        | 15 x 15   20 x 10   25 x 5  | 2,5                  | 3,75               | 5                  | 250/5                 |
| TD5.2   |              |                           |                             |                      |                    |                    |                       |
| M750A5. | TD5.2 100/5A | 22                        | 25 x 10   30 x 10   20 x 12 | -                    | -                  | 1                  | 100/5                 |
| M750A6. | TD5.2 125/5A | 22                        | 25 x 10   30 x 10   20 x 12 | -                    | 1                  | 1,5                | 125/5                 |
| M750A7. | TD5.2 150/5A | 22                        | 25 x 10   30 x 10   20 x 12 | 1                    | 1,5                | 2,5                | 150/5                 |
| M750A8. | TD5.2 200/5A | 22                        | 25 x 10   30 x 10   20 x 12 | 1,5                  | 2,5                | 3,5                | 200/5                 |
| M750A9. | TD5.2 250/5A | 22                        | 25 x 10   30 x 10   20 x 12 | 2,5                  | 3,5                | 5                  | 250/5                 |
| M750AA. | TD5.2 300/5A | 22                        | 25 x 10   30 x 10   20 x 12 | 2,5                  | 3,5                | 5                  | 300/5                 |
| M750AB. | TD5.2 400/5A | 22                        | 25 x 10   30 x 10   20 x 12 | 2,5                  | 3,5                | 5                  | 400/5                 |
| M750AC. | TD5.2 500/5A | 22                        | 25 x 10   30 x 10   20 x 12 | 5                    | 7,5                | 10                 | 500/5                 |
| M750AD. | TD5.2 600/5A | 22                        | 25 x 10   30 x 10   20 x 12 | 5                    | 7,5                | 10                 | 600/5                 |
| TD6.2   |              |                           |                             |                      |                    |                    |                       |
| M75055. | TD6.2 100/5A | 25                        | 25 x 12   30 x 10   20 x 20 | 1                    | 2,5                | 3,5                | 100/5                 |
| M75056. | TD6.2 125/5A | 25                        | 25 x 12   30 x 10   20 x 20 | 1,5                  | 3,5                | 5                  | 125/5                 |
| M75057. | TD6.2 150/5A | 25                        | 25 x 12   30 x 10   20 x 20 | 2,5                  | 3,5                | 5                  | 150/5                 |
| M75058. | TD6.2 200/5A | 25                        | 25 x 12   30 x 10   20 x 20 | 3,5                  | 5                  | 5                  | 200/5                 |
| M75059. | TD6.2 250/5A | 25                        | 25 x 12   30 x 10   20 x 20 | 3,5                  | 5                  | 5                  | 250/5                 |
| M7505A. | TD6.2 300/5A | 25                        | 25 x 12   30 x 10   20 x 20 | 5                    | 7,5                | 7,5                | 300/5                 |
| M7505B. | TD6.2 400/5A | 25                        | 25 x 12   30 x 10   20 x 20 | 5                    | 7,5                | 7,5                | 400/5                 |
| M7505C. | TD6.2 500/5A | 25                        | 25 x 12   30 x 10   20 x 20 | 5                    | 7,5                | 10                 | 500/5                 |
| M7505D. | TD6.2 600/5A | 25                        | 25 x 12   30 x 10   20 x 20 | 5                    | 7,5                | 10                 | 600/5                 |
| TD6     |              |                           |                             |                      |                    |                    |                       |
| M75047. | TD6 150/5A   | 28                        | 20 x 25   30 x 15   40 x 10 | 1                    | 2,5                | 3,5                | 150/5                 |



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|---------|--------------|---------------------------|-----------------------------|----------------------|--------------------|--------------------|-----------------------|
| M75048. | TD6 200/5A   | 28                        | 20 x 25   30 x 15   40 x 10 | 1,5                  | 3,5                | 5                  | 200/5                 |
| M75049. | TD6 250/5A   | 28                        | 20 x 25   30 x 15   40 x 10 | 2,5                  | 5                  | 5                  | 250/5                 |
| M7504A. | TD6 300/5A   | 28                        | 20 x 25   30 x 15   40 x 10 | 2,5                  | 5                  | 5                  | 300/5                 |
| M7504B. | TD6 400/5A   | 28                        | 20 x 25   30 x 15   40 x 10 | 2,5                  | 5                  | 5                  | 400/5                 |
| M7504C. | TD6 500/5A   | 28                        | 20 x 25   30 x 15   40 x 10 | 5                    | 7,5                | 7,5                | 500/5                 |
| M7504D. | TD6 600/5A   | 28                        | 20 x 25   30 x 15   40 x 10 | 5                    | 7,5                | 7,5                | 600/5                 |
| M7504E. | TD6 750/5A   | 28                        | 20 x 25   30 x 15   40 x 10 | 5                    | 7,5                | 10                 | 750/5                 |
| M7504F. | TD6 800/5A   | 28                        | 20 x 25   30 x 15   40 x 10 | 5                    | 7,5                | 10                 | 800/5                 |
| TD8     |              |                           |                             |                      |                    |                    |                       |
| M7506A. | TD8 300/5A   | 43                        | 50 x 30   60 x 12  13 x 45  | 2,5                  | 3,5                | 3,5                | 300/5                 |
| M7506B. | TD8 400/5A   | 43                        | 50 x 30   60 x 12  13 x 45  | 2,5                  | 3,5                | 5                  | 400/5                 |
| M7506C. | TD8 500/5A   | 43                        | 50 x 30   60 x 12  13 x 45  | 2,5                  | 5                  | 5                  | 500/5                 |
| M7506D. | TD8 600/5A   | 43                        | 50 x 30   60 x 12  13 x 45  | 2,5                  | 5                  | 5                  | 600/5                 |
| M7506E. | TD8 750/5A   | 43                        | 50 x 30   60 x 12  13 x 45  | 2,5                  | 5                  | 5                  | 750/5                 |
| M7506F. | TD8 800/5A   | 43                        | 50 x 30   60 x 12  13 x 45  | 5                    | 7,5                | 7,5                | 800/5                 |
| M7506G. | TD8 1000/5A  | 43                        | 50 x 30   60 x 12  13 x 45  | 5                    | 7,5                | 10                 | 1000/5                |
| M7506H. | TD8 1200/5A  | 43                        | 50 x 30   60 x 12  13 x 45  | 5                    | 7,5                | 10                 | 1200/5                |
| M7506J. | TD8 1250/5A  | 43                        | 50 x 30   60 x 12  13 x 45  | 7,5                  | 10                 | 10                 | 1250/5                |
| M7506K. | TD8 1500/5A  | 43                        | 50 x 30   60 x 12  13 x 45  | 7,5                  | 10                 | 15                 | 1500/5                |
| M7506L. | TD8 1600/5A  | 43                        | 50 x 30   60 x 12  13 x 45  | 7,5                  | 10                 | 15                 | 1600/5                |
| TD10    |              |                           |                             |                      |                    |                    |                       |
| M7507D. | TD10 600/5A  | 63                        | 50 x 50   60 x 30   80 x 30 | 2,5                  | 5                  | 7,5                | 600/5                 |
| M7507E. | TD10 750/5A  | 63                        | 50 x 50   60 x 30   80 x 30 | 2,5                  | 5                  | 7,5                | 750/5                 |
| M7507F. | TD10 800/5A  | 63                        | 50 x 50   60 x 30   80 x 30 | 2,5                  | 5                  | 7,5                | 800/5                 |
| M7507G. | TD10 1000/5A | 63                        | 50 x 50   60 x 30   80 x 30 | 2,5                  | 5                  | 7,5                | 1000/5                |
| M7507H. | TD10 1200/5A | 63                        | 50 x 50   60 x 30   80 x 30 | 2,5                  | 5                  | 7,5                | 1200/5                |
| M7507J. | TD10 1250/5A | 63                        | 50 x 50   60 x 30   80 x 30 | 2,5                  | 5                  | 7,5                | 1250/5                |
| M7507K. | TD10 1500/5A | 63                        | 50 x 50   60 x 30   80 x 30 | 5                    | 10                 | 15                 | 1500/5                |
| M7507L. | TD10 1600/5A | 63                        | 50 x 50   60 x 30   80 x 30 | 5                    | 10                 | 15                 | 1600/5                |
| M7507M. | TD10 2000/5A | 63                        | 50 x 50   60 x 30   80 x 30 | 5                    | 10                 | 15                 | 2000/5                |
| M7507N. | TD10 2500/5A | 63                        | 50 x 50   60 x 30   80 x 30 | 5                    | 10                 | 15                 | 2500/5                |
| M7507P. | TD10 3000/5A | 63                        | 50 x 50   60 x 30   80 x 30 | 5                    | 10                 | 15                 | 3000/5                |
| TD12    |              |                           |                             |                      |                    |                    |                       |
| M7508F. | TD12 800/5A  | 50                        | 100 x 50                    | 2,5                  | 5                  | 7,5                | 800/5                 |
| M7508G. | TD12 1000/5A | 50                        | 100 x 50                    | 2,5                  | 5                  | 7,5                | 1000/5                |
| M7508H. | TD12 1200/5A | 50                        | 100 x 50                    | 5                    | 10                 | 15                 | 1200/5                |
| M7508J. | TD12 1250/5A | 50                        | 100 x 50                    | 5                    | 10                 | 15                 | 1250/5                |
| M7508K. | TD12 1500/5A | 50                        | 100 x 50                    | 7,5                  | 15                 | 20                 | 1500/5                |



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|---------|--------------|---------------------------|----------------|----------------------|--------------------|--------------------|-----------------------|
| M7508L. | TD12 1600/5A | 50                        | 100 x 50       | 7,5                  | 15                 | 20                 | 1600/5                |
| M7508M. | TD12 2000/5A | 50                        | 100 x 50       | 7,5                  | 15                 | 20                 | 2000/5                |
| M7508N. | TD12 2500/5A | 50                        | 100 x 50       | 10                   | 20                 | 25                 | 2500/5                |
| M7508P. | TD12 3000/5A | 50                        | 100 x 50       | 10                   | 20                 | 25                 | 3000/5                |
| M7508Q. | TD12 4000/5A | 50                        | 100 x 50       | 15                   | 20                 | 25                 | 4000/5                |

For other configurations see table of additional features



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### Dimensions



### Connections

