



## TD6 150/5A

TD6 150/5A, Current transformer

Code: M75047.

- > Flat strip(mm): 20 x 25 | 30 x 15 | 40 x 10
- > Inner diameter (mm): 28
- > System: Single-phase
- > Class 0,5 Power (VA): 1
- > Class 1 Power (VA): 2,5
- > Class 3 Power (VA): 3,5
- > Measurement Range (A): 150/5
- > Input current: 150 A
- > 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                                      | 1 VA(Class 0.5) , 2,5 VA(Class 1) , 3,5 VA(Class 3) |
| Insulation voltage between terminals S1-S2 | 3 kV  |

#### Mechanical characteristics

|                                  |   |
|----------------------------------|---|
| Size (mm) width x height x depth | 66 x 91 x 53 (mm)                         |
| Envelope                         | Plastic wrap V0 self-extinguishing, UL 94 |
| Fastening                        | DIN rail with accessory                   |
| Weight (kg)                      | 0,336                                     |

#### 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

|                       |               |
|-----------------------|---------------|
| Inner diameter Ø (mm) | 30            |
| Operating voltage     | 0,72 kV~ máx. |

#### Current measurement circuit

|                                     |            |
|-------------------------------------|------------|
| Nominal frequency                   | 50 / 60 Hz |
| Primary current measurement         | 150 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) |
|------|------|---------------------------|----------------|----------------------|--------------------|--------------------|-----------------------|
|------|------|---------------------------|----------------|----------------------|--------------------|--------------------|-----------------------|



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|--------------|--------------|---------------------------|-----------------------------|----------------------|--------------------|--------------------|-----------------------|
| <b>TD4</b>   |              |                           |                             |                      |                    |                    |                       |
| M75011.      | TD4 40/5A    | 20                        |                             | -                    | -                  | 1,25               | 40/5                  |
| 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                 |
| <b>TD5</b>   |              |                           |                             |                      |                    |                    |                       |
| 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                 |
| <b>TD5.2</b> |              |                           |                             |                      |                    |                    |                       |
| 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                 |
| <b>TD6.2</b> |              |                           |                             |                      |                    |                    |                       |
| M75055.      | TD6.2 100/5A | 25                        | 25 x 12   30 x 10   20 x 20 | 2,5                  | 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                 |



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|-------------|--------------|---------------------------|-----------------------------|----------------------|--------------------|--------------------|-----------------------|
| <b>TD6</b>  |              |                           |                             |                      |                    |                    |                       |
| M75047.     | TD6 150/5A   | 28                        | 20 x 25   30 x 15   40 x 10 | 1                    | 2,5                | 3,5                | 150/5                 |
| 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                 |
| <b>TD8</b>  |              |                           |                             |                      |                    |                    |                       |
| 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                |
| <b>TD10</b> |              |                           |                             |                      |                    |                    |                       |
| 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                |
| <b>TD12</b> |              |                           |                             |                      |                    |                    |                       |
| 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                |



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|---------|--------------|---------------------------|----------------|----------------------|--------------------|--------------------|-----------------------|
| 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                |
| 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

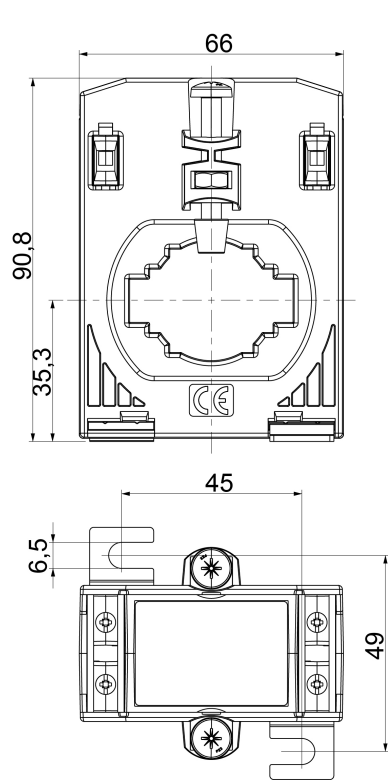


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## Dimensions



| PLETINA(mm) | Ø MAX(mm) |
|-------------|-----------|
| 30X15       | 28        |
| 40X10       |           |
| 20X25       |           |

## Connections

