



## TQ-8 500 /5A

TQ-8 500 /5A, Split core current transformer

Code: M74039.

- > Flat strip(mm): 60 x 80
- > System: Single-phase
- > Class 0,5 Power (VA): 2
- > Class 1 Power (VA): 5
- > Class 3 Power (VA): 7,5
- > Measurement Range (A): 500/5
- > Input current: 500 A
- > Transformer type: Split core

### Description

The **TQ** transformer range has been designed to facilitate installation thanks to its split core, which allows it to be installed without having to shut off the power, in both cable and busbar installations. Main features:

- Types from 100 to 5000 A in the primary
- Secondary encoding types.../5 A,.../1 A,.../250 mA
- Busbar dimension from 20 x 30 mm to 160 x 80 mm
- Certified transformers
- Accessory for DIN-rail mounting (not available for TQ-12)

### Application

Ideal for installations where the electricity cannot be shut off when installing the transformers.



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Specifications

Electrical characteristics

|                                            |                                                   |
|--------------------------------------------|---------------------------------------------------|
| Safety factor (SF)                         | 10                                                |
| Power                                      | 2 VA(Class 0.5) , 5 VA(Class 1) , 7,5 VA(Class 3) |
| Insulation voltage between terminals S1-S2 | 3 kV                                              |

Mechanical characteristics

|                                  |                                |
|----------------------------------|--------------------------------|
| Size (mm) width x height x depth | 120 x 148.5 x 28 (mm)          |
| Envelope                         | Plastic V0 self-extinguishing  |
| Fastening                        | Mural or DIN rail by accessory |
| Weight (kg)                      | 0,548                          |

Environmental characteristics

|                                          |                   |
|------------------------------------------|-------------------|
| Thermal Class                            | class B (+130 °C) |
| Protection class                         | IP 20             |
| Relative humidity (without condensation) | 15 ... 85%        |
| 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

|                                     |            |
|-------------------------------------|------------|
| Nominal frequency                   | 50 / 60 Hz |
| Primary current measurement         | 500 A      |
| Dynamic current (Idyn)              | 2,5 Ith    |
| Thermal short-circuit current (Ith) | 60 In      |
| Transformation ratio                | ... / 5 A  |

Standards

|                                       |                                                  |
|---------------------------------------|--------------------------------------------------|
| Electrical safety, Maximum height (m) | 1000                                             |
| Standards                             | UNE-EN 61869-1, UNE-EN 61869-2, UNE 21031, UL 94 |

TQ

Current transformers split core, button opening

| CODE    | TYPE         | Measurement Range (A) | Flat strip(mm) | Class 0,5 Power (VA) | Class 1 Power (VA) | Class 3 Power (VA) |
|---------|--------------|-----------------------|----------------|----------------------|--------------------|--------------------|
| TQ-6    |              |                       |                |                      |                    |                    |
| M74023. | TQ-6 100 /5A | 100/5                 | 20 x 30        | -                    | -                  | 1                  |
| M74025. | TQ-6 150 /5A | 150/5                 | 20 x 30        | -                    | -                  | 1                  |



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|---------|---------------|-----------------------|----------------|----------------------|--------------------|--------------------|
| M74026. | TQ-6 200 /5A  | 200/5                 | 20 x 30        | -                    | -                  | 2                  |
| M74027. | TQ-6 250 /5A  | 250/5                 | 20 x 30        | -                    | 1                  | 2                  |
| M74028. | TQ-6 300 /5A  | 300/5                 | 20 x 30        | 0,5                  | 1                  | 2                  |
| M7402A. | TQ-6 400 /5A  | 400/5                 | 20 x 30        | 1                    | 2,5                | 4                  |
| TQ-8    |               |                       |                |                      |                    |                    |
| M74035. | TQ-8 300 /5A  | 300/5                 | 60 x 80        | -                    | 1                  | 2,5                |
| M74037. | TQ-8 400 /5A  | 400/5                 | 60 x 80        | 1                    | 1,5                | 3                  |
| M74039. | TQ-8 500 /5A  | 500/5                 | 60 x 80        | 2                    | 5                  | 7,5                |
| M7403B. | TQ-8 600 /5A  | 600/5                 | 60 x 80        | 2                    | 5                  | 8                  |
| M7403D. | TQ-8 700 /5A  | 700/5                 | 60 x 80        | 2                    | 5                  | 8                  |
| M7403E. | TQ-8 750 /5A  | 750/5                 | 60 x 80        | 2,5                  | 5                  | 10                 |
| M7403F. | TQ-8 800 /5A  | 800/5                 | 60 x 80        | 3                    | 6                  | 10                 |
| M7403I. | TQ-8 1000 /5A | 1000/5                | 60 x 80        | 5                    | 8                  | 15                 |
| TQ-10   |               |                       |                |                      |                    |                    |
| M74041. | TQ-10 500/5A  | 500/5                 | 120 x 80       | -                    | 4                  | 12                 |
| M74042. | TQ-10 600/5A  | 600/5                 | 120 x 80       | -                    | 5                  | 14                 |
| M74043. | TQ-10 750/5A  | 750/5                 | 120 x 80       | 3                    | 6                  | 17                 |
| M74044. | TQ-10 800/5A  | 800/5                 | 120 x 80       | 3                    | 7                  | 18                 |
| M74045. | TQ-10 1000/5A | 1000/5                | 120 x 80       | 5                    | 9                  | 20                 |
| M74046. | TQ-10 1200/5A | 1200/5                | 120 x 80       | 6                    | 11                 | 24                 |
| M74047. | TQ-10 1250/5A | 1250/5                | 120 x 80       | 7                    | 15                 | 28                 |
| M74048. | TQ-10 1500/5A | 1500/5                | 120 x 80       | 8                    | 17                 | 30                 |
| M7404A. | TQ-10 2000/5A | 2000/5                | 120 x 80       | 8                    | 17                 | 30                 |
| TQ-12   |               |                       |                |                      |                    |                    |
| M74051. | TQ-12 1000/5  | 1000/5                | 160 X 80       | 10                   | 15                 | 20                 |
| M74052. | TQ-12 1500/5  | 1500/5                | 160 X 80       | 15                   | 20                 | 25                 |
| M74053. | TQ-12 2000/5  | 2000/5                | 160 X 80       | 15                   | 20                 | 25                 |
| M74054. | TQ-12 2500/5  | 2500/5                | 160 X 80       | 15                   | 20                 | 25                 |
| M74055. | TQ-12 3000/5  | 3000/5                | 160 X 80       | 20                   | 25                 | 30                 |
| M74056. | TQ-12 4000/5  | 4000/5                | 160 X 80       | 20                   | 25                 | 30                 |
| M74057. | TQ-12 5000/5  | 5000/5                | 160 X 80       | 20                   | 25                 | 30                 |

For other configurations see table of additional features



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### Dimensions



### Connections

