



TC8 020 500A

TC8 020 500A, Current transformers narrow section

Code: M72051.

- > Flat strip(mm): 60 x 12
- > Inner diameter (mm): 44
- > Analog output: 0...20 mA
- > Measurement Range (A): 500
- > Input current: 500 A
- > Transformer type: Current transformer with 4 ... 20 mA converter

Description

- Self-powered: does not need an auxiliary power supply.
- Primary current: from 50 to 300 Aac, depending on the type
- Secondary current: 0 ... 20 mA
- Internal diameter: from 28 to 44 mm, depending on the type
- Busbar dimensions: from 40 x 10 mm to 60 x 12 mm

Application

Used in power lines to obtain a current proportional to the primary current rated at 0..20 mA / 4...20 mA in the secondary



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Specifications

Electrical characteristics

| | |
|--------------------|--------|
| Safety factor (SF) | FS < 5 |
|--------------------|--------|

Mechanical characteristics

| | |
|----------------------------------|------------------------------------|
| Size (mm) width x height x depth | 84.5 x 102 x 50 (mm) |
| Envelope | Plastic wrap V0 self-extinguishing |
| Weight (kg) | 0,4 |

Environmental characteristics

| | |
|---------------|-------------------|
| Thermal Class | Class B (+130 °C) |
|---------------|-------------------|

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 | 300 A |
| Dynamic current (Idyn) | 2,5 lth |
| Thermal short-circuit current (lth) | 60 In |
| Transformation ratio | 0 ... 20 mA |

TC-020

Current transformers with converter 4...20 mA or 0...20 mA

| CODE | TYPE | Measurement Range (A) | Flat strip(mm) | Inner diameter (mm) |
|------------------|---------------|-----------------------|----------------|---------------------|
| Output 0...20 mA | | | | |
| M72032. | TC6 020 100A | 100 | 40 x 10 | 28 |
| M72034. | TC6 020 200A | 200 | 40 x 10 | 28 |
| M72036. | TC6 020 300A | 300 | 40 x 10 | 28 |
| M72031. | TC6 020 50A | 50 | 40 x 10 | 28 |
| M72052. | TC8 020 1000A | 1000 | 60 x 12 | 44 |
| M72053. | TC8 020 1500A | 1500 | 60 x 12 | 44 |
| M72051. | TC8 020 500A | 500 | 60 x 12 | 44 |

For greater currents, use: transformer + transducer

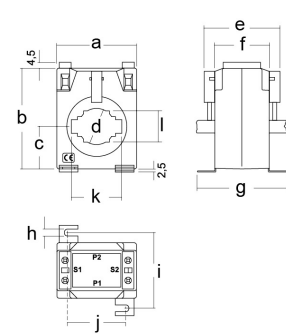


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Dimensions



| | TC 5 TCH 5 | TC 5.2 TCH 5.2 | TC 6.2 TCH6.2 | TC 6 TCH 6 | TC 8 TCH 8 | TC 10 TCH 10 |
|---|---------------|-------------------|------------------|---------------|---------------|-----------------|
| a | 58 | 58 | 64 | 64 | 84,5 | 108 |
| b | 70 | 70 | 80,5 | 80,5 | 102 | 130 |
| c | 29 | 29 | 34 | 34 | 46 | 61 |
| d | 20,3 | 22 | 26 | 28,5 | 44 | 63 |
| e | 45 | 45 | 60,5 | 66,5 | 69 | --- |
| f | 32 | 32 | 44 | 44 | 50 | 50 |
| g | 59 | 59 | 71 | 71,2 | 78 | 78 |
| h | 5,6 | 5,6 | 5,6 | 5,6 | 6,6 | 6,6 |
| i | 48 | 48 | 60 | 60 | 64 | 64 |
| j | 39 | 39 | 46 | 46 | 62 | 86 |
| k | 25,6 | 30,6 | 30,6 | 40,6 | 60,6 | 80,6 |
| l | 15,6 | 15,6 | 20,6 | 25,2 | 30,6 | 50,8 |