



## TC5 420 20A

TC5 420 20A, Current transformers narrow section

Code: M72114.

- > Flat strip(mm): 25 x 5
- > Inner diameter (mm): 20
- > Analog output: 4...20 mA
- > Measurement Range (A): 20
- > Input current: 20 A
- > Transformer type: Current transformer with 4 ... 20 mA converter

### Description

- Needs an output power supply of 7.5 ... 36 Vdc
- Primary current: from 5 to 300 Aac, depending on the type
- Secondary current: 4 ... 20 mA
- Internal diameter: from 20 to 44 mm, depending on the type
- Busbar dimensions: from 25 x 5 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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Current transformer with converter

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### Specifications

#### Auxiliary power supply

|         |                |
|---------|----------------|
| Voltage | 7,5 ... 36 Vdc |
|---------|----------------|

#### Electrical characteristics

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

#### Mechanical characteristics

|                                  |                                    |
|----------------------------------|------------------------------------|
| Size (mm) width x height x depth | 58 x 70 x 32 (mm)                  |
| Envelope                         | Plastic wrap V0 self-extinguishing |
| Weight (kg)                      | 0,305                              |

#### Environmental characteristics

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

#### Specific technical characteristics of current sensors

|                       |               |
|-----------------------|---------------|
| Inner diameter Ø (mm) | 20            |
| Operating voltage     | 0,72 kV~ max. |

#### Current measurement circuit

|                                     |             |
|-------------------------------------|-------------|
| Nominal frequency                   | 50 / 60 Hz  |
| Primary current measurement         | 100 A       |
| Dynamic current (Idyn)              | 2,5 Ith     |
| Thermal short-circuit current (Ith) | 60 In       |
| Transformation ratio                | 4 ... 20 mA |

#### TC-420

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

| CODE  | TYPE          | Measurement Range (A) | Flat strip(mm) | Inner diameter (mm) |
|---|---------------|-----------------------|----------------|---------------------|
| <b>Output 4...20 mA, ext. supply 7,5...36 Vdc</b> |               |                       |                |                     |
| M72112.   | TC5 420 5A    | 5                     | 25 x 5         | 20                  |
| M72113.   | TC5 420 10A   | 10                    | 25 x 5         | 20                  |
| M72114.   | TC5 420 20A   | 20                    | 25 x 5         | 20                  |
| M72132.   | TC6 420 100A  | 100                   | 40 x 10        | 28                  |
| M72134.   | TC6 420 200A  | 200                   | 40 x 10        | 28                  |
| M72136.   | TC6 420 300A  | 300                   | 40 x 10        | 28                  |
| M72131.   | TC6 420 50A   | 50                    | 40 x 10        | 28                  |
| M72152.   | TC8 420 1000A | 1000                  | 60 x 12        | 44                  |



## TC5 420 20A

Current transformer with converter

Code: M72114.

| CODE    | TYPE          | Measurement Range (A) | Flat strip(mm) | Inner diameter (mm) |
|---------|---------------|-----------------------|----------------|---------------------|
| M72153. | TC8 420 1500A | 1500                  | 60 x 12        | 44                  |
| M72151. | TC8 420 500A  | 500                   | 60 x 12        | 44                  |

For greater currents, use: transformer + transducer

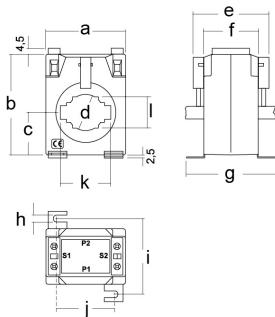


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Current transformer with converter

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### Dimensions



|   | TC 5<br>TCH 5 | TC 5.2<br>TCH 5.2 | TC 6.2<br>TCH6.2 | TC 6<br>TCH 6 | TC 8<br>TCH 8 | TC 10<br>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            |