



## TCB-420-35-5A

TCB-420-35-5A, Current transformer with converter 4 ... 20 mA

Code: M71012.

- > Inner diameter (mm): 35
- > Analog output: 4...20 mA
- > Measurement Range (A): 5
- > Input current: 5 A
- > Transformer type: Current transformer with 4 ... 20 mA converter

### Description

- Built-in internal output power supply
- Needs an auxiliary power supply of 230 V ac
- Primary current: from 2.5 to 1500 A ac, depending on the type
- Secondary current: 4..20 mA
- Internal diameter / Busbar dimensions: from 35 to 105 mm

### Application

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



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### Specifications

#### Auxiliary power supply

|         |         |
|---------|---------|
| Voltage | 230 Vac |
|---------|---------|

#### Mechanical characteristics

|                                  |                    |
|----------------------------------|--------------------|
| Size (mm) width x height x depth | 166 x 79 x 33 (mm) |
| Weight (kg)                      | 0,39               |

#### Environmental characteristics

|                       |               |
|-----------------------|---------------|
| Operating temperature | -10°...+50 °C |
|-----------------------|---------------|

#### Specific technical characteristics of current sensors

|                       |               |
|-----------------------|---------------|
| Inner diameter Ø (mm) | 35            |
| Operating voltage     | 0,72 kV~ max. |

#### Current measurement circuit

|                             |             |
|-----------------------------|-------------|
| Nominal frequency           | 51 / 60 Hz  |
| Primary current measurement | 5 A         |
| Permanent overload          | 1,5 In      |
| Transformation ratio        | 4 ... 20 mA |

#### Standards

|           |  |
|-----------|--|
| Standards | IEC 44-1, UNE 21 088-1, IEC 664, VDE0110, VDE0414, UL 94, IEC 1010-1, EN 61010-1 |
|-----------|--|

#### Measurement accuracy

|          |          |
|----------|----------|
| Accuracy | ±1,5% In |
|----------|----------|

#### TCB

Current transformer with converter 4...20 mA

| CODE   | TYPE            | Measurement Range (A) | Inner diameter (mm) |
|--|-----------------|-----------------------|---------------------|
| <b>Output internal supply 4...20 mA (230 Vac Auxiliary supply)</b> |                 |                       |                     |
| M71011.  | TCB-420-35-2.5A | 2.5                   | 35                  |
| M71012.  | TCB-420-35-5A   | 5                     | 35                  |
| M71013.  | TCB-420-35-10A  | 10                    | 35                  |
| M71014.  | TCB-420-35-20A  | 20                    | 35                  |
| M71015.  | TCB-420-35-50A  | 50                    | 35                  |
| M71016.  | TCB-420-35-100A | 100                   | 35                  |
| M71017.  | TCB-420-35-250A | 250                   | 35                  |



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Code: M71012.

| CODE    | TYPE            | Measurement Range (A) | Inner diameter (mm) |
|---------|-----------------|-----------------------|---------------------|
| M71021. | TCB-420-70-100A | 100                   | 70                  |
| M71022. | TCB-420-70-250A | 250                   | 70                  |
| M71023. | TCB-420-70-500A | 500                   | 70                  |
| M71024. | TCB-420-70-750A | 750                   | 70                  |

For greater currents, use: transformer + transducer