

## TP-420-23-20A

TP-420-23-20A, Split core current transformer with converter 4...20 mA

Code: M70213.

- > Flat strip(mm): 20 x 30
- > Analog output: 4...20 mA
- > Measurement Range (A): 20
- > Input current: 20 A
- > Transformer type: Current transformer with 4 ... 20 mA converter

### Description

- Needs a power supply output of 10 to 28 V dc
- Primary current: from 5 to 4000 A ac, depending on the type
- Secondary current 4...20 mA
- Internal diameter from 20 to 80 mm, depending on the type
- Busbar dimensions from 20 x 30 mm to 80 x 160 mm, depending on the type

### Application

Used in power lines to obtain a current proportional to the primary current rated at 4...20 mA in the secondary Recommended in scenarios where the process signal must be proportional to the current of an automated system or PLC and the installation's power supply can not be interrupted to install a closed entrance bar transformer.



# TP-420-23-20A

Current transformer with converter

Code: M70213.

## Specifications

### Auxiliary power supply

|         |               |
|---------|---------------|
| Voltage | 10 ... 28 Vdc |
|---------|---------------|

### Mechanical characteristics

|                                  |                    |
|----------------------------------|--------------------|
| Size (mm) width x height x depth | 110 x 89 x 58 (mm) |
| Weight (kg)                      | 0,75               |

### Environmental characteristics

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

### Specific technical characteristics of current sensors

|                   |               |
|-------------------|---------------|
| Operating voltage | 0,72 kV~ max. |
|-------------------|---------------|

### Current measurement circuit

|                             |             |
|-----------------------------|-------------|
| Nominal frequency           | 50 / 60 Hz  |
| Primary current measurement | 20 A        |
| Permanent overload          | 1,5 In      |
| Transformation ratio        | 4 ... 20 mA |

### Standards

|           |                                                                                    |
|-----------|------------------------------------------------------------------------------------|
| Standards | IEC 44-1, UNE 21 088-1, IEC 664, VDE 0110, VDE 0414, UL 94, IEC 1010-1, EN 61010-1 |
|-----------|------------------------------------------------------------------------------------|

### Measurement accuracy

|          |                          |
|----------|--------------------------|
| Accuracy | ±1,5% ( 5 ... 110 % In ) |
|----------|--------------------------|

### TP-420

Current transformer with converter 4...20 mA

| CODE                                 | TYPE           | Measurement Range (A) | Flat strip(mm) |
|--------------------------------------|----------------|-----------------------|----------------|
| 10...28 Vdc supply, Output 4...20 mA |                |                       |                |
| M70211.                              | TP-420-23-5A   | 5                     | 20 x 30        |
| M70212.                              | TP-420-23-10A  | 10                    | 20 x 30        |
| M70213.                              | TP-420-23-20A  | 20                    | 20 x 30        |
| M70214.                              | TP-420-23-50A  | 50                    | 20 x 30        |
| M70215.                              | TP-420-23-100A | 100                   | 20 x 30        |
| M70216.                              | TP-420-23-200A | 200                   | 20 x 30        |
| M70217.                              | TP-420-23-250A | 250                   | 20 x 30        |



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| CODE    | TYPE           | Measurement Range (A) | Flat strip(mm) |
|---------|----------------|-----------------------|----------------|
| M70218. | TP-420-23-500A | 500                   | 20 x 30        |
| M70221. | TP-420-58-100A | 100                   | 50 x 80        |
| M70222. | TP-420-58-250A | 250                   | 50 x 80        |
| M70223. | TP-420-58-500A | 500                   | 50 x 80        |
| M70224. | TP-420-58-750A | 750                   | 50 x 80        |

For greater currents, use: transformer + transducer

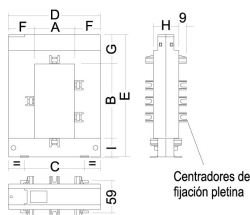


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## Dimensions



| mm | TP-23 | TP-58 | TP-88 | TP-812 | TP-816 |
|----|-------|-------|-------|--------|--------|
| a  | 20    | 50    | 80    | 80     | 80     |
| b  | 30    | 80    | 80    | 120    | 160    |
| c  | 51    | 78    | 108   | 108    | 120    |
| d  | 89    | 114   | 144   | 144    | 184    |
| e  | 110   | 145   | 145   | 185    | 245    |
| f  | 34    | 32    | 32    | 32     | 52     |
| g  | 47    | 32    | 32    | 32     | 47     |
| h  | 40    | 32    | 32    | 32     | 52     |
| i  | 32    | 32    | 32    | 32     | 38     |

## Connections

