



## FMZ96 440V

FMZ96 440V, Phasemeter

Code: M13537.

- > Scale: 240° P1
- > System: Single-phase
- > Accuracy: 1,5
- > Measurement Range (V): 440
- > Modules: 96x96

### Description

- Does not need an auxiliary power supply
- DIN box with dimensions 96 and 144 mm.
- Precision class 1,5
- Built-in electronic converter
- Balanced single and three-phase circuits

### Application

Measurement of  $\cos\phi$  in balanced or unbalanced single and three-phase circuits



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Phasemeters

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### Specifications

#### Mechanical characteristics

|                                  |                      |
|----------------------------------|----------------------|
| Size (mm) width x height x depth | 96 x 96 x 101.2 (mm) |
| Fastening                        | Panel                |
| Weight (kg)                      | 0,45                 |

#### Environmental characteristics

|                     |   |
|---------------------|---|
| Protection class    | Panel: IP 52 (Front), IP 00 (Terminals) |
| Storage temperature | -25...+40 °C                            |
| Working temperature | +10 ... +30 °C                          |

#### Standards

|                                       |  |
|---------------------------------------|--|
| Certifications                        | UL   |
| Electrical safety, Maximum height (m) | 2000   |
| Standards                             | BS 89, UNE-EN 60051, IEC 144, UL94, DIN 43780, IEC 51, UNE 21318 |

#### Current measurement circuit

|                      |  |
|----------------------|--|
| Consumption          | 0,75 VA  |
| Sampling frequency   | 20 ... 100 Hz  |
| Nominal current (In) | ... 5 A  |
| Allowable overload   | 1,2 In permanent / 5 In during 30s / 10 In during 5s / 40 In during 1s |

#### Voltage measurement circuit

|                                       |   |
|---------------------------------------|---|
| Consumption                           | 4 VA  |
| Sampling frequency                    | 40 ... 70 Hz                                    |
| Maximum permanent measurement voltage | 1,2 Vn permanent rated voltage / 2 Vn during 5s |

#### Electrical characteristics

|                             |   |
|-----------------------------|---|
| Insulation voltage, circuit | 2 kV, 50 Hz, 1 min entre mecanismo y caja |
|-----------------------------|---|

#### Measurement accuracy

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

#### FMZ / FTC

Single phase and three-phase 240° electronic phase-meters

| CODE                | TYPE       | Scale   | Accuracy | Modules |
|---------------------|------------|---------|----------|---------|
| <b>Single-phase</b> |            |         |          |         |
| M13537.             | FMZ96 440V | 240° P1 | 1,5      | 96x96   |



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Phasemeters

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Current range: 0.1 to 1.2 In. For the connection of transformers .../5A. Built-in electronic transducer.



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## Dimensions



|     | a   | b   | c    | d   | e                  |
|-----|-----|-----|------|-----|--------------------|
| 96  | 96  | 91  | 95,5 | 5,7 | 92 <sup>+0,8</sup> |
| 144 | 144 | 137 | 64,5 | 7,3 | 138 <sup>+1</sup>  |

## Connections

