



## FEMC96 500V

FEMC96 500V, Phasemeter

Code: M13438.

- > Scale: 90° P1
- > System: Single-phase
- > Accuracy: 1,5
- > Measurement Range (V): 500
- > Modules: 96x96

### Description

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

### Application

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



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### Specifications

#### Mechanical characteristics

|                                  |                     |
|----------------------------------|---------------------|
| Size (mm) width x height x depth | 96 x 96 x 62.9 (mm) |
| Fastening                        | Panel               |
| Weight (kg)                      | 0,48                |

#### 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          | 1,5 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                           | 1 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 |
|----------|------------|

#### FEMC / FETC

Single phase and three-phase 90° electronic phase-meters

| CODE                | TYPE            | Scale  | Accuracy | Modules |
|---------------------|-----------------|--------|----------|---------|
| <b>Single-phase</b> |                 |        |          |         |
| M13431.             | FEMC96 100/√3 V | 90° P1 | 1,5      | 96x96   |



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Phasemeters

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| CODE                        | TYPE             | Scale  | Accuracy | Modules |
|-----------------------------|------------------|--------|----------|---------|
| M13432.                     | FEMC96 110/√3 V  | 90° P1 | 1,5      | 96x96   |
| M13433.                     | FEMC96 100V      | 90° P1 | 1,5      | 96x96   |
| M13434.                     | FEMC96 110V      | 90° P1 | 1,5      | 96x96   |
| M13435.                     | FEMC96 230V      | 90° P1 | 1,5      | 96x96   |
| M13436.                     | FEMC96 400V      | 90° P1 | 1,5      | 96x96   |
| M13437.                     | FEMC96 440V      | 90° P1 | 1,5      | 96x96   |
| M13438.                     | FEMC96 500V      | 90° P1 | 1,5      | 96x96   |
| M13441.                     | FEMC144 100/√3 V | 90° P1 | 1,5      | 144x144 |
| M13442.                     | FEMC144 110/√3 V | 90° P1 | 1,5      | 144x144 |
| M13443.                     | FEMC144 100V     | 90° P1 | 1,5      | 144x144 |
| M13444.                     | FEMC144 110V     | 90° P1 | 1,5      | 144x144 |
| M13445.                     | FEMC144 230V     | 90° P1 | 1,5      | 144x144 |
| M13446.                     | FEMC144 400V     | 90° P1 | 1,5      | 144x144 |
| M13447.                     | FEMC144 440V     | 90° P1 | 1,5      | 144x144 |
| M13448.                     | FEMC144 500V     | 90° P1 | 1,5      | 144x144 |
| <b>Balanced three-phase</b> |                  |        |          |         |
| M1343C.                     | FETC96 100V      | 90° P1 | 1,5      | 96x96   |
| M1343D.                     | FETC96 110V      | 90° P1 | 1,5      | 96x96   |
| M1343E.                     | FETC96 230V      | 90° P1 | 1,5      | 96x96   |
| M1343F.                     | FETC96 400V      | 90° P1 | 1,5      | 96x96   |
| M1343G.                     | FETC96 440V      | 90° P1 | 1,5      | 96x96   |
| M1343H.                     | FETC96 500V      | 90° P1 | 1,5      | 96x96   |
| M1344C.                     | FETC144 100V     | 90° P1 | 1,5      | 144x144 |
| M1344D.                     | FETC144 110V     | 90° P1 | 1,5      | 144x144 |
| M1344E.                     | FETC144 230V     | 90° P1 | 1,5      | 144x144 |
| M1344F.                     | FETC144 400V     | 90° P1 | 1,5      | 144x144 |
| M1344G.                     | FETC144 440V     | 90° P1 | 1,5      | 144x144 |
| M1344H.                     | FETC144 500V     | 90° P1 | 1,5      | 144x144 |

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



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Phasemeters

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### Dimensions



### Connections

