



## EM45 .../110V

EM45 .../110V, oltmeter

Code: M10450. DESCATALOGADO

- > Scale: 90° P1
- > Accuracy: 1,5
- > Measurement Range (V): .../110

### Description

- No need for auxiliary power supply
- Measurement in true root mean square or V ... 600 V ac
- Exchangeable scales

### Application

In alternating current applications, to control the state of the voltage quickly and visually.



# EM45 .../110V

Moving Iron Voltmeters

Code: M10450.

## Specifications

### Mechanical characteristics

|                                  |                   |
|----------------------------------|-------------------|
| Size (mm) width x height x depth | 85 x 52 x 65 (mm) |
| Fastening                        | DIN rail          |
| Weight (kg)                      | 0,142             |

### Environmental characteristics

|                       |                                            |
|-----------------------|--------------------------------------------|
| Protection class      | DIN rail: IP 52 (front), IP 00 (terminals) |
| Storage temperature   | -25...+40 °C                               |
| Operating temperature | +10 ... +30 °C                             |

### Standards

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

### Voltage measurement circuit

|                                       |                                                 |
|---------------------------------------|-------------------------------------------------|
| Consumption                           | 1 ... 4 VA                                      |
| Sampling frequency                    | 20 ... 100 Hz                                   |
| Maximum permanent measurement voltage | 1,5 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 |
|----------|----------|

### EMSC-V Moving Iron Voltmeters (ac)

| CODE    | TYPE            | Scale  | Accuracy |
|---------|-----------------|--------|----------|
| M10456. | EM45 300V       | 90° P1 | 1,5      |
| M10476. | EMSC45 300V     | 90° P1 | 1,5      |
| M10458. | EM45 500V       | 90° P1 | 1,5      |
| M10478. | EMSC45 500V     | 90° P1 | 1,5      |
| M10450. | EM45 .../110V   | 90° P1 | 1,5      |
| M10470. | EMSC45 .../110V | 90° P1 | 1,5      |

Exchangeable scales, Voltmeters 90°



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### Connections

