

Multimeters (TRMS)

The measurement instruments in the EV3M series are TRMS electronic digital multimeters to view the main electric measurements of 3 or 4 wires three-phase systems
Measurements view: voltage, current, power, power factor, frequency and neutral current are shown on three LED displays with three digits.

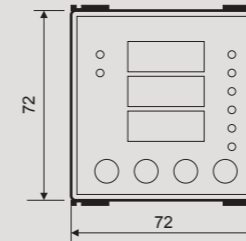


- 1 Terminals for power supply and voltage connection
- 2 Parameters setting keys or browser menu
- 3 Terminals for current measurements
- 4 3 displays with 3 digits showing the taken measurements

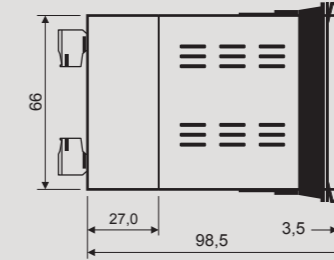
EV3M-R

DIMENSIONS (mm)

Front view

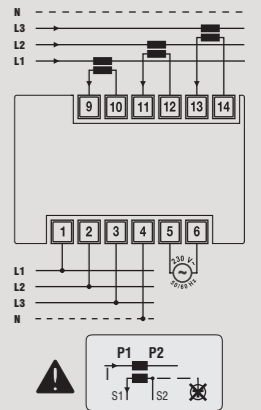


Side view



CONNECTION DIAGRAM

Diagram



Attention: the current transformer secondary circuits CANNOT be earthed.



MEASUREMENT AND CONTROL

DIGITAL MULTIMETER (TRMS)

- Power supply: 230 Vac (-15%/+10%)
- 3 separate displays with 3 digits 7 segments for view the taken measurements
- Measurements taken:
 - phase voltages (L-N); concatenated voltages (L-L)
 - phase current
 - phase active power, phase apparent power, phase reactive power
 - power factor (cosφ)
 - frequency
 - neutral current
- CT transformation ratios selectable:
 - from 5/5 to 1000/5 with steps of 5
 - from 1000/5 to 10000/5 with steps of 50
- Container: 72x72
- Direct voltage connection
- Current connection through external transformer x/5 A

TECHNICAL INFORMATION

GENERAL CHARACTERISTICS

| | | |
|---------------------------------|---------|--|
| Power supply | V AC | 230 (-15 ÷ +10%) |
| Frequency | Hz | 50 / 60 |
| Input current | A | $I_n = 5$; $I_{max} = 6$ |
| Maximum own consumption | VA | voltage circuits <2.5 current circuits <2.5 |
| Precision | | ± (0.5% f.s. + 1 digit) |
| Measurement precision and range | | resolution 1 V resolution 10 mA |
| Minimum measurable signal | Voltage | 10 V |
| | Current | 150 mA |

| | | |
|-------------------------|-------------------------|--------------------------|
| Current connection type | through external CT x/5 | |
| Voltage connection type | direct | |
| Section of leads | max 2.5 mm ² | |
| View | 3x3 digits Led display | |
| Container | 77x72 | |
| Operating temperature | °C | -10 ÷ +45 |
| Operating humidity | | 10% ÷ 90% non condensing |
| Storage temperature | °C | -20 ÷ +60 |
| Degree of Protection | | IP20 / 51 on the front |

| Code | Model | Description |
|----------|--------|--------------------------|
| VE334900 | EV3M-R | Digital multimeter 72x72 |

REFERENCE STANDARDS

Compliance with Community Directives: 2006/95/EC (Low Voltage) and 2004/108/EC (E.M.C.) is declared with reference to the following harmonized standards: EN 61010-1, EN 61000-6-2 and EN 61000-6-4