Panel instruments

DIN rail digital ammeters, voltmeter and frequency meter

Function
AMP
Ammeters measure in amps the current flowing through an electric circuit.

VLT
Voltmeters measure in volts the potential (voltage) difference of an electric circuit.

FRE
The frequency meter measures in hertz the frequency of an electric circuit from 20 to 600 V AC.

Common technical data
- Supply voltage: 230 V.
- Operating frequency: 50/60 Hz.
- Display by red LED: 3 digits, h = 8 mm.
- Accuracy at full-scale: ±0.5 % ±1 digit.
- Consumption: max. 5 VA or rated 2.5 VA.
- Degree of protection:
  - IP40 on front face
  - IP20 at terminal level.
- Connection: tunnel terminals for 2.5 mm² cables.

Specific data
10 A direct reading ammeter
- Minimum value measured: 4 % of rating.
- Measurement input consumption: 1 VA.

Multi-rating ammeter
- Ratings:
  - in direct reading: 5 A
  - by CT (not supplied) configurable on the front face of the ammeter: 10, 15, 20, 25, 40, 50, 60, 100, 150, 200, 250, 400, 500, 600, 800, 1000, 1500, 2000, 2500, 4000, 5000 A.
- Minimum value measured: 4 % of rating.
- Measurement input consumption: 0.55 VA.

Voltmeter
- Direct measurement: 0...600 V.
- Input impedance: 2 MΩ.
- Minimum value measured: 4 % of rating.

Frequency meter
- Minimum value measured: 20 Hz.
- Maximum value measured: 100 Hz.
- Full-scale display: 99.9 Hz.

Compliance with standards
- Safety: IEC/EN 61010-1.

Catalogue numbers

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<tr>
<th>Type</th>
<th>Scale</th>
<th>Connection with CT</th>
<th>Width in mod. of 9 mm</th>
<th>Cat. no.</th>
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<tr>
<td>Direct reading AMP</td>
<td>0-10 A</td>
<td>No</td>
<td>4</td>
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<tr>
<td>Multi-rating AMP</td>
<td>0-5000 A</td>
<td>As per rating</td>
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<tr>
<td>VLT</td>
<td>0-600 V</td>
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<tr>
<td>FRE</td>
<td>20-100 Hz</td>
<td>4</td>
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