CEM-C12

CEM-C12, Single-phase energy meter, direct connection

Code: Q27111.   DESCATALOGADO

> Protocol: Modbus/RTU
> Módules: 1
> Certification: IEC
> Communications: RS-485
> System: Single-phase
> Measure: Direct
> Measurement Range (V): 1 x 230
> Measurement Range (A): 10 (100) A
> Quadrants: 4

Description

CEM-C12 is a single-phase, direct-connection electricity meter rated at up to 100 A. It measures electricity bidirectionally and features Class-1 accuracy. It also has RS-485/Modbus-RTU communications built into the same device.
Main features include:

○ Small size (1 DIN rail module, 18 mm)
○ Backlit LCD screen (6 digits) with rotating display system
○ Electrical parameter readings

Application

To measure electricity consumption in buildings, machinery or the tertiary sector.
Control of partial consumption
To report electricity consumption to a remote system.

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Single-phase electrical energy meter, for assembly on DIN Rail

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Specifications

AC power supply

Nominal voltage	230 V ~

Mechanical characteristics

Size (mm) width x height x depth	18 x 90 x 72 (mm)
Envelope	ABS, PC alloy material
Fastening	Attached to a DIN rail (IEC 60715)
Weight (kg)	0,1

Environmental characteristics

Protection class	IP 51 (Indoor meter)
Relative humidity (without condensation)	95 %
Operating temperature	-20 ... +65 °C

Current measurement circuit

Maximum current	100 A

Voltage measurement circuit

Nominal frequency	50/60 Hz.
Maximum input voltage consumption	≤ 10 VA , ≤ 0,4 Wh

User interface

LED	1000 imp / kWh
Keyboard	1 Keys
Display type	LCD
Maximum value	99999,9 kWh

Standards

Standards	IEC 62053-21, IEC 62052-11, EN 50470-1, EN 50470-3

Measurement accuracy

Active energy measurement (kWh)	Class 1 (IEC 62053-21)

Serial communication

Protocol	Modbus RTU
Technology / Type	RS-485

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Direct Single-phase energy meter with basic analyser parameters

CODE	TYPE	Quadrants	Measurement Range (V)	Measurement Range (A)	Tariff	Certification	Módules	Communications	Protocol
Q27111.	CEM-C12	4	1 x 230	10 (100) A	1	IEC	1	RS-485	Modbus/RTU
Q27112.	CEM-C12-MID	4	1 x 230	0.25 ... 5 (100) A	1	MID	1	RS-485	Modbus/RTU

Frecuency: 50/60 Hz. Parameters: V, A, kW, kVA, kWh, cos phi
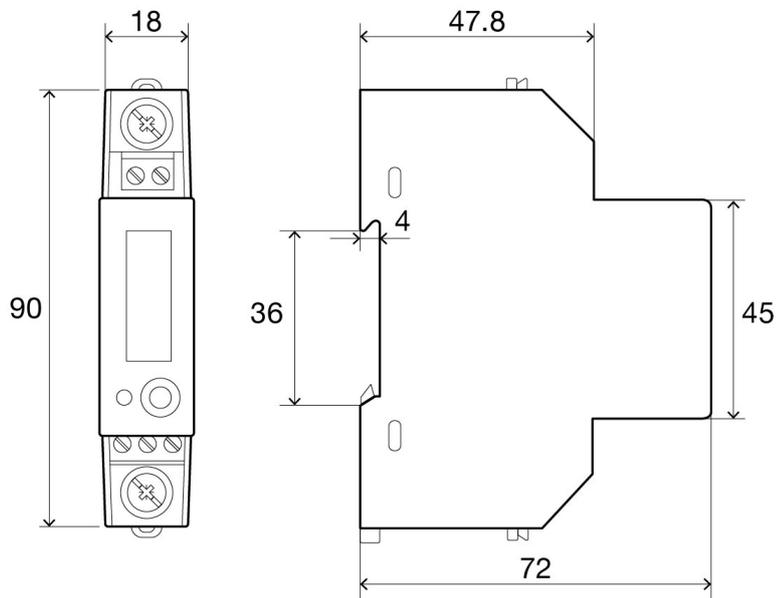
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| Dimensions | Connections |