CEM-C12c-MID

CEM-C12c-MID, Single-phase energy meter, direct connection

Code: Q27212.

> Protocol: Modbus/RTU
> Módules: 1
> Certification: MID
> Communications: RS-485
> System: Single-phase
> Measure: Direct
> Measurement Range (V): 1 x 230
> Measurement Range (A): 0.25 ... 5 (100) A
> Quadrants: 4

Description

CEM-C12c 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.

CEM-C12c-MID

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

Code: Q27212.

Specifications

AC power supply

Nominal voltage	230 V ~

Mechanical characteristics

Size (mm) width x height x depth	18 x 90 x 72 (mm)
Envelope	PBT + 15% GF
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 %
Storage temperature	-30 ... +70 °C
Working temperature	-25... +70 °C

Current measurement circuit

Maximum current	100 A

Voltage measurement circuit

Nominal frequency	50 Hz.
Maximum input voltage consumption	≤ 12 VA , ≤ 1 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, EU Directive 2014/32/EU on Measuring instruments Annex II, Module B

Measurement accuracy

Active energy measurement (kWh)	Class B (EN 50470)

Serial communication

Protocol	Modbus RTU
Technology / Type	RS-485

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CEM-C12c-MID

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

Code: Q27212.

CEM-C12c
Single-phase direct energy meter with basic analyser parameters

CODE	TYPE	Quadrants	Measurement Range (V)	Measurement Range (A)	Tariff	Certification	Módules	Communications	Protocol
Q27211.	CEM-C12c	4	1 x 230	10 (100) A	1	IEC	1	RS-485	Modbus/RTU
Q272110020000	CEM-C12c	4	1 x 127	5 (100) A	1	IEC	1	RS-485	Modbus/RTU
Q27212.	CEM-C12c-MID	4	1 x 230	0.25 ... 5 (100) A	1	MID	1	RS-485	Modbus/RTU

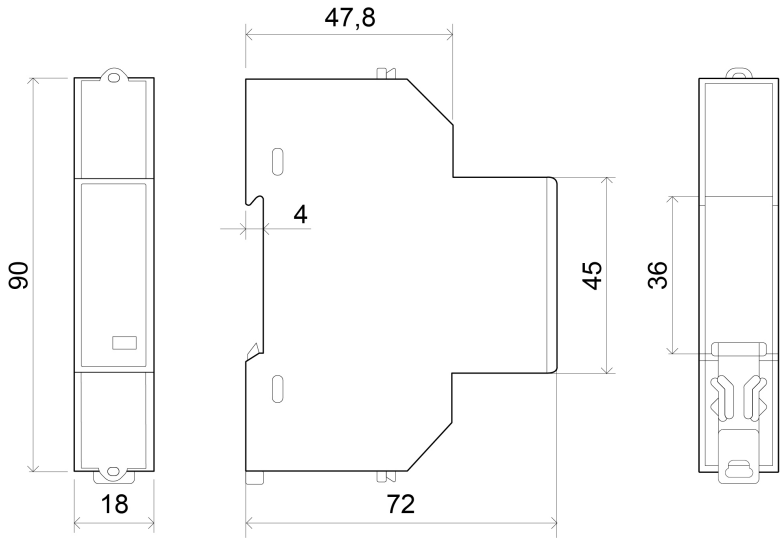
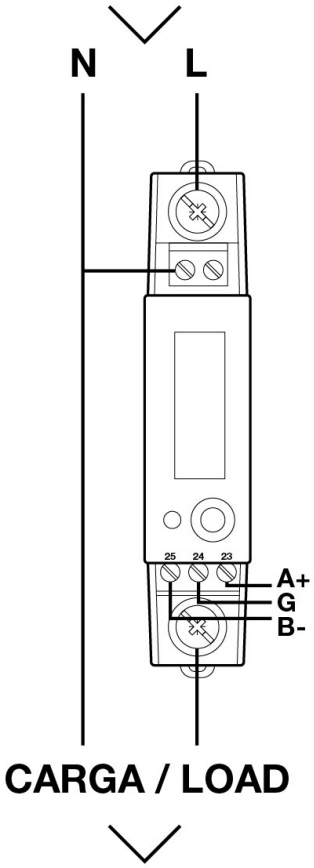
Parameters: V, A, kW, kVA, kWh, cos phi

CEM-C12c-MID

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

Code: Q27212.

Dimensions



Connections