

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

Creation date: 29/11/2026 - CIRCUTOR, SAU reserves the right to make technical changes or modify the content/images of this document without prior notice, in order to improve its reliability, functionality, design or for other reasons.
It accepts no liability for any errors, inaccuracies or possible lack of information in this document.



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

Creation date: 29/11/2026 - CIRCUTOR, SAU reserves the right to make technical changes or modify the content/images of this document without prior notice, in order to improve its reliability, functionality, design or for other reasons.
It accepts no liability for any errors, inaccuracies or possible lack of information in this document.

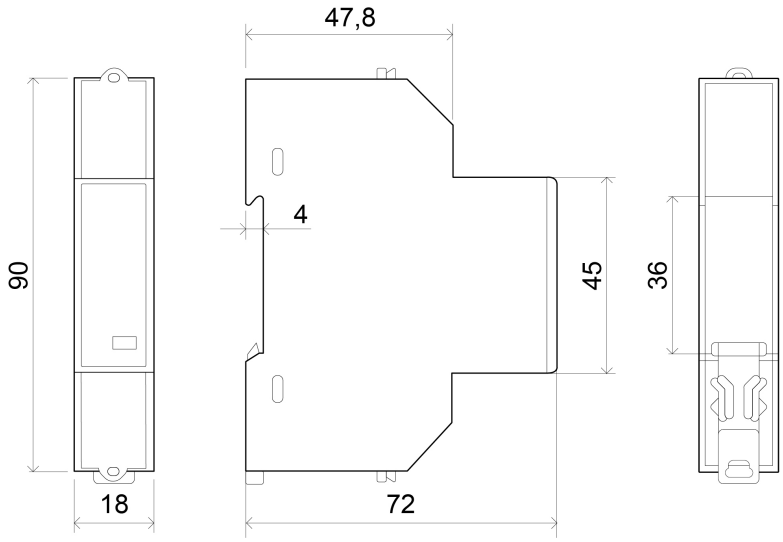


CEM-C12c-MID

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

Code: Q27212.

Dimensions



Connections

