



## CEM-C12c

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

Code: Q27211.

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

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

Code: Q27211.

### 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                 | 50/60 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 |
|-----------|--|

#### Measurement accuracy

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

#### Serial communication

|                   |            |
|-------------------|------------|
| Protocol          | Modbus RTU |
| Technology / Type | RS-485     |



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

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### 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 |
| 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

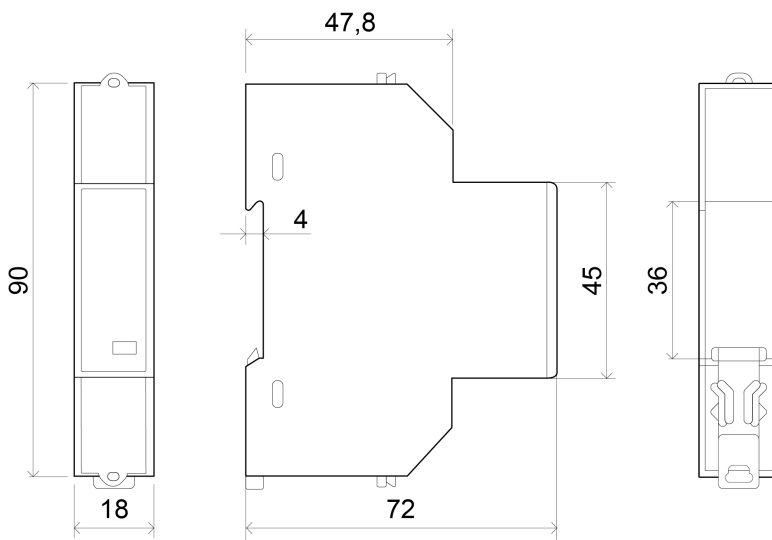


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### Dimensions



### Connections

