



CEM C10 212 MID

CEM C10 212 MID, Single-phase energy meter with MID certificate

Code: Q21114.

- > Módulos: 2
- > Tariff: 1
- > Certification: MID
- > Transistor output: 1
- > System: Single-phase
- > Measure: Direct
- > Measurement Range (V): 1 x 230
- > Measurement Range (A): 5 (65) A
- > Max. Current (A): 65

Specifications

AC power supply

Installation category	CAT III 300 V
Consumption	< 2 W, 10 VA
Frequency	50 ... 60 Hz
Nominal voltage	230 V ~ ±20 %

Mechanical characteristics

Size (mm) width x height x depth	35 x 90 x 61 (mm)
Weight (kg)	0,14

Environmental characteristics

Relative humidity (without condensation)	5 ... 95 %
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Current measurement circuit

Consumption	0.3 VA ... 10 A
Reference current (Iref)	5 A
Maximum current	65 A
Minimum current measurement	0.250 A
Transition current	0.500 A

Voltage measurement circuit

Nominal frequency	50 ó 60 Hz.
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Electrical characteristics

Insulation voltage, circuit	4 kV RMS 50 Hz durante 1 min
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Communications

Protocol	ModBus
Speed	9600



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Energy meter for DIN rail mounting

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Standards

Electrical safety, Maximum height (m)

2000



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Standards	IEC 62053-21, IEC 62053-23, EN 50470-1, EN 50470-3
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User interface

LED	2 LED: kWh, 1000 imp/kWh, kvarh, 1000 imp/kvarh
Keyboard	2 Keys
Display type	LCD
Maximum value	999999.9 kWh

Digital transistor outputs

Quantity	1
Pulse output, time period (Ton / Toff)	Ton: 200 ms
Maximum current	50 mA
Maximum voltage	24 Vcc

Measurement accuracy

Reactive energy measurement (kvarh)	Class 2.0 (IEC 62053-23)
Active energy measurement (kWh)	Class B (EN 50470)

CEM-C

CODE	TYPE	Measurement Range (V)	Measurement Range (A)	Communications	Protocol	Transistor output	Digital inputs	Tariff	Certification
Direct three-phase									
Q22411.	CEM-C21-T1	3 x 127/220...3 x 230/400	5 (65) A	-	-	1	-	1	IEC
Q22421.	CEM-C21-485-T1	3 x 127/220...3 x 230/400	5 (65) A	RS-485	Modbus/RTU	1	-	1	IEC
Q22431.	CEM-C21-485-DS	3 x 127/220...3 x 230/400	5 (65) A	RS-485	Modbus/RTU	0	1	2	IEC
Q22412.	CEM-C21-T1-MID	3 x 127/220...3 x 230/400	5 (65) A	-	-	1	-	1	MID
Q22422.	CEM-C21-485-T1-MID	3 x 127/220...3 x 230/400	5 (65) A	RS-485	Modbus/RTU	1	-	1	MID
Q22432.	CEM-C21-485-DS-MID	3 x 127/220...3 x 230/400	5 (65) A	RS-485	Modbus/RTU	0	1	2	MID
Indirect three-phase									
Q23511.	CEM-C31-T1	3 x 57/100...3 x 230/400	.../ 5 (10) A	-	-	1	-	1	IEC
Q23521.	CEM-C31-485-T1	3 x 57/100...3 x 230/400	.../ 5 (10) A	RS-485	Modbus/RTU	1	-	1	IEC
Q23531.	CEM-C31-485-DS	3 x 57/100...3 x 230/400	.../ 5 (10) A	RS-485	Modbus/RTU	0	1	2	IEC
Q23512.	CEM-C31-T1-MID	3 x 57/100...3 x 230/400	.../ 5 (10) A	-	-	1	-	1	MID
Q23522.	CEM-C31-485-T1-MID	3 x 57/100...3 x 230/400	.../ 5 (10) A	RS-485	Modbus/RTU	1	-	1	MID
Q23532.	CEM-C31-485-DS-MID	3 x 57/100...3 x 230/400	.../ 5 (10) A	RS-485	Modbus/RTU	0	1	2	MID



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Dimensions



Connections

