

CEM-C21c-MID

CEM-C21c-MID, Direct three-phase energy meter with communications and MID certificate

Code: Q22542.

> Protocol: Modbus RTU
> Módules: 4
> Tariff: 1
> Certification: MID
> Communications: RS-485
> Transistor output: 1
> System: Three-phase
> Measure: Direct
> Measurement Range (V):3 x 230/400
> Measurement Range (A): 5 (100) A
> Max. Current (A): 100

Specifications

AC power supply

Consumption	< 1 W, < 12 VA
Frequency	50 Hz
Nominal voltage	230 V ± 20 % ~ (400 VPh-Ph ± 20 %)

Environmental characteristics

Relative humidity (without condensation)	5 ... 95 %
Storage temperature	-40 .. +80 °C
Working temperature	-40 ... +70 °C

Mechanical characteristics

Envelope	PC+ABS
Fastening	DIN rail (IEC 60715)
Weight (kg)	0,38

Current measurement circuit

Reference current (Iref)	5 A
Maximum current	100 A
Minimum current measurement	0.250 A
Transition current	0.500 A

Voltage measurement circuit

Nominal frequency	50 Hz
Nominal voltage	3 x 230 Vph-n/400 Vph-ph ~

Electrical characteristics

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

Creation date: 25/11/2026 - 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-C21c-MID

Code: Q22542.

Standards

Electrical safety, Maximum height (m)	2000
Standards	EN 50470-1, EN 50470-3, IEC 62053-21, IEC 62053-23, IEC 62052-11, EU Directive 2014/32/EU on Measuring Instruments Annex II, Module B

User interface

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

Digital inputs

Quantity	1
Type	Potencial free contact
Minimum signal width	Ton ≥ 200ms, Toff ≥ 200ms

Digital transistor outputs

Pulse width	100 ms
Quantity	1
Type	Optocoupler
Maximum current	27 mA
Maximum voltage	12 ... 27 Vcc

Measurement accuracy

Reactive energy measurement (kvarh)	Class 2 (IEC 62053-23)
Active energy measurement (kWh)	Class B (EN 50470)

Serial communication

Protocol	Modbus RTU
Technology / Type	RS-485

Accesor-V2

Other charging accessories

CODE	TYPE	Earth leakage protection	Circuit breaker protection	Surge Protection (SPD)	Módules	Poles	Energy meter	Surge Protection (SPD+POP)	Contracted power (kW)	Cable (m)	In (A)	Grid type	Charger side	Vehicle side	Device	Description	Measurement Range (V)	Measurement Range (A)	Communications	Protocol	Transistor output	Digital inputs	Tariff	Certification
2 poles																								
V41232.	COFRET-VE6-2P-20AS	Type A	20 A	Yes	6	2	-																	
V4123Q.	COFRET-VE8-2P-20AS 6DC	Type A + 6 mADC	20 A	Yes	8	2	-																	
V41261.	COFRET-VE6-2P-40A	Type A	40 A	No	6	2	-																	
V41262.	COFRET-VE6-2P-40AS	Type A	40 A	Yes	6	2	-																	
V41266.	COFRET-VE8-2P-40AS-MID	Type A	40 A	Yes	8	2	MID																	
2 poles - Meter reconnection scheme 2																								
V4126X.	COFRET-VE8-2P-40AS REC	Type A	40 A		8	2	-	Yes																
4 poles																								
V41461.	COFRET-VE12-4P-40A	Type A	40 A	No	12	4	-																	
V41462.	COFRET-VE12-4P-40AS	Type A	40 A	Yes	12	4	-																	
V42009.	CirBEON-63								14,49															
Charging cables for Mode 3																								
V40119.	CONNEC T2-T2 M-16-5m									5	16	Single-phase	Type 2	Type 2										
V40125.	CONNEC T1-T2 M-32-5m									5	32	Single-phase	Type 2	Type 1										



CEM-C21c-MID

Code: Q22542.

CODE	TYPE	Earth leakage protection	Circuit breaker protection	Surge Protection (SPD)	Módules	Poles	Energy meter	Surge Protection (SPD+POP)	Contracted power (kW)	Cable (m)	In (A)	Grid type	Charger side	Vehicle side	Device	Description	Measurement Range (V)	Measurement Range (A)	Communications	Protocol	Transistor output	Digital inputs	Tariff	Certification
V40232.	CONNEC T2-T2 T-32-5m									5	32	Three-phase	Type 2	Type 2										
V40331.	PD20-WB1																							
V40332.	PD20-WB2																							
V40311.	PD10-FM1														1 x eHOME									
V40312.	PD10-FM2														2 x eHOME									
V40326.	PD26-ePark														1 x (eNext | ePark)									
V40340.	PD-Sonic22														2 x (Sonic Wall 22 | Sonic Wall 22)									
V30012.	RVE-CARD															Proximity card (MiFARE Classic 1K)								
V30010.	RVE-CARD Key															Proximity card (MiFARE Classic 1K) with engraved Key A								
Q22542.	CEM-C21c-MID																3 x 230/400	5 (100) A	RS-485	Modbus RTU	1	-	1	MID
V40197.	Soporte cable																							