

CEM-C21-485-T1

CEM-C21-485-T1, Direct three-phase energy meter with communications

Code: Q22421.

> Protocol: Modbus/RTU
> Módules: 4
> Tariff: 1
> Certification: IEC
> Communications: RS-485
> Transistor output: 1
> System: Three-phase
> Measure: Direct
> Measurement Range (V): 3 x 127/220...3 x 230/400
> 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 / 400 V ~ (± 20 %)

Mechanical characteristics

Size (mm) width x height x depth	70 x 90 x 64 (mm)
Weight (kg)	0,38

Environmental characteristics

Relative humidity (without condensation)	5 ... 95 %

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

Consumption	< 2W , < 10VA (In, Vref)
Nominal frequency	50 / 60 Hz
Nominal voltage	3 x 127/220 ... 3 x 230/400 V ~

Electrical characteristics

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

Communications

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Energy meter for DIN rail mounting

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Protocol	ModBus
Type	RS-485
Speed	9600 - 19200 -38400

Standards

Electrical safety, Maximum height (m)	2000
Standards	EN 50470-1, EN 50470-3, IEC 62053-21, IEC 62053-23, EN 62056-21

User interface

LED	2 LED: kWh, 4000 imp/kW, kvarh, 4000 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 1 (IEC 62053-21)

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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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Energy meter for DIN rail mounting

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Dimensions

Connections

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