



CEM-D310 -MID, Indirect three-phase energy meter with MID certification

Code: Q23602.

> Módules: 4> Certification: MID> Transistor output: 1> System: Three-phase> Measure: Indirect

> Measurement Range (V): 3x127(230)...3x230(400)V

> Measurement Range (A): .../5A o .../1A

Description

Three-phase electric energy meter with indirect measurement .../5 A and .../1 A (depending on model), featuring sealable terminals and optional communication via Modbus RS-485 and M-BUS protocols (depending on model).

Main features include:

- o MID certification, modules B+D (depending on model).
- O Class 1 for active energy (Class B as per MID), Class 2 for reactive energy.
- Compliant with EN 50470 (European MID standard) or IEC 62052-11 (international standard), depending on the model.
- \circ Compact size (4 DIN rail modules).
- o Resettable partial energy counter.
- o 1 programmable pulse output (depending on model).
- o 1 digital input for tariff control and pulse counting (depending on model).
- o Time-of-use tariff calendar.
- o Modbus RS-485 and M-BUS communications (depending on model).
- $\circ\;$ Display of basic electrical parameters (V, A, kW, kWh, PF, etc.).

Application

- o Meter for energy sub-metering.
- Applications where certified MID meters are required for energy verification and billing.
- Meter used to verify the energy invoiced by the electricity distributor.
- o Energy consumption reporting and connectivity with SCADA systems.
- o Energy and cost control in industrial processes.







Three-phase electricity meter with indirect measurement /5A and / or 1A.

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Specifications

Installation category	CAT III 300 V
Consumption	< 0.5 W, < 2 VA
Frequency	50 60 Hz
Nominal voltage	3 x 127/220 3 x 230/400 V ~ ± 20 %
Mechanical characteristics	
Size (mm) width x height x depth	71.5 x 90 x 74 (mm)
Envelope	PC+ABS
Fastening	DIN rail (IEC 60715)
Weight (kg)	0,38
Environmental characteristics	
Protection class	IP 51 (instaled) IP 40 (terminal area)
Relative humidity (without condensation)	5 95 %
Storage temperature	-40 +85 °C
Working temperature	-40 +70 °C
Current measurement circuit	
Consumption	< 1 VA
Reference current (Iref)	/5 A (5A)
Minimum current measurement	/5 A (0.05A)
Transition current	0.250 A
/oltage measurement circuit	
Nominal voltage	3 x 127/220 3 x 230/400 V ~ ± 20 %
Nonmon voicage	
Jser interface	
	2 LED: kWh: 4000 imp/kWh, kvarh: 4000 imp/kvarh
Jser interface	2 LED: kWh: 4000 imp/kWh, kvarh: 4000 imp/kvarh 2 Keys
User interface LED	
User interface LED Keyboard	2 Keys
LED Keyboard Display type	2 Keys LCD
LED Keyboard Display type Maximum value	2 Keys LCD
LED Keyboard Display type Maximum value	2 Keys LCD 4294967 kWh IEC-62053-21; IEC 62053-23; IEC 62053-52; IEC 62052-11; UNE-EN 50470-3; MI







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Pulse output, time period (Ton / Toff)	Ton: 40 ms / Toff: 64.34 ms			
Maximum current	≤ 27 mA			
Maximum voltage	≤ 27 V			

Measurement accuracy

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

CEM-D300

Three-phase indirect energy meter

CODE	TYPE	Measurement Range (V)	Measurement Range (A)	Transistor output	Certification	Módules	Digital inputs	Communications	Protocol
Indirect t	hree-phase								
Q23601.	CEM-D310	3x127(230)3x230(400)V	/5A o/1A	1	IEC	4			
Q23602.	CEM-D310 -MID	3x127(230)3x230(400)V	/5A o/1A	1	MID	4			
Q23611.	CEM-D311	3x127(230)3x230(400)V	/5A o/1A		IEC	4	2	RS-485	Modbus/RTU
Q23612.	CEM-D311 -MID	3x127(230)3x230(400)V	/5A o/1A		MID	4	2	RS-485	Modbus/RTU
Q23621.	CEM-D312	3x127(230)3x230(400)V	/5A o/1A		IEC	4	2		MBUS
Q23622.	CEM-D312 -MID	3x127(230)3x230(400)V	/5A o/1A		MID	4	2		MBUS







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Dimensions Connections





