

CEM-C31

Three-phase electrical energy meter with indirect measurement, assembly on DIN rail



Description

Three-phase electrical energy meter with indirect measurement, 5(10)A. Built-in LCD display (7 digits) with rotating screen system. Features built-in RS-485 communications. Also features 2 buttons (1 sealable button) for viewing all the measured information.

Other features include:

- Class 1 active energy, Class 2 reactive energy
- Complies with the **IEC 62052-11** standards (international standards)
- Compact size (4 modules, 72 mm)
- Resettable partial meter
- 1 programmable impulse output, in accordance with **DIN 43864**
- Indicates bad connections on the screen
- Energy storage, even in the case of bad connections

Applications

- Redundant meter for verifying the energy allocated by the energy provider.
- Energy consumption report sent to a remote system (PLC/BMS).
- Cost control for achieving a high consumption/unit ratio in industrial processes.
- Display of electrical parameters (V, A, kW, kW·h, PF, etc.), per phase and three-phase.

Technical features

Power circuit	Rated voltage	230 Vac / 127 Vac, depending on the model
	Tolerance	± 20%
	Frequency	50...60 Hz
	Consumption	< 2 W / 10 VA
Voltage measurement circuit	Connection	Three-phase
	Reference voltage	3 x 57/100...3 x 230/400 Vac
	Frequency	50 / 60 Hz
	Self-consumption	< 2 W / 10 VA
Current measurement circuit	Nominal current I_n	5 A
	Maximum current	10 A
	Self-consumption	< 0.1% of I_n
	Accuracy	Active Energy
	Reactive Energy	Class 2.0 (IEC 62053-23)
Communications	Hardware	RS-485
	Protocol	Modbus
	Baud rate	9600, 19200, 38400 bps
Impulse output	Type	Optocoupled
	Electrical features	max. 24 Vdc 50 mA
Environmental features	Operating temperature	-25 °C...+70 °C
	Relative humidity	5%...95% without condensation
Mechanical features	Protection degree	IP 51 installation / IP 40 terminals
	Dimensions	70 x 90 x 64 mm
	Weight	230 g
	Material	ABS + V0 self-extinguishing polycarbonate
Standards	EN 50470-1, EN 50470-3, IEC 62052-11, IEC 62053-21, IEC 62053-23	

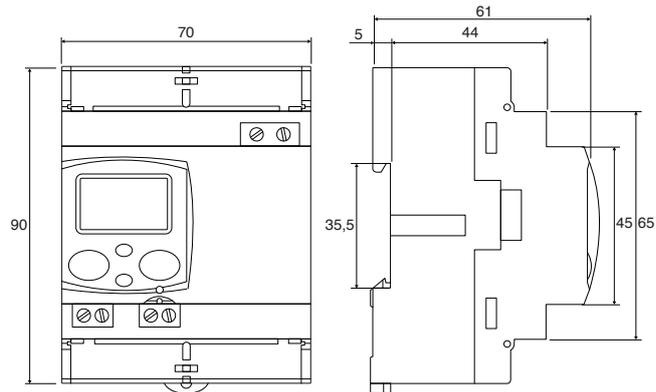
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References

Type	Code	Parameters measured	Active	Reactive
CEM-C31	Q23442	V, A, kW, kWh, kvar, kvarh, PF	●	●

Dimensions



Connections

