



402-VT5A-COB10

402-VT5A-COB10, Three-phase energy meter indirect connection

Code: QBL30

- > Type Consumer: 1
- > Communications: RS-485 | Ethernet
- > Class (Active / Reactive): 0.2S/0.5
- > System: Three-phase
- > Measure: Indirect
- > Measurement Range (V): 3x57/100 ... 3x230/400
- > Measurement Range (A): .../5
- > Quadrants: 4
- > Frequency (Hz): 50

Specifications

AC power supply

Tolerance	80 % ... 115 % Un
Consumption	< 2 W; < 10 VA
Frequency	50 / 60 Hz
Nominal voltage	3 x 57 (100) V... 3 x 230 (400) V

Mechanical characteristics

Size (mm) width x height x depth	172 x 255 x 67 (mm)
Envelope	DIN 43859
Weight (kg)	0,67

Environmental characteristics

Relative humidity (without condensation)	95 % max.
Storage temperature	-40 ... +85 °C
Working temperature	-25 ... +70 °C

Voltage measurement circuit

Connection	Asymmetrical
Consumption	< 2 W; 10 VA
Nominal frequency	50 / 60 Hz
Nominal voltage	3x57/100 ... 3x230/400 V

Current measurement circuit

Consumption	< 0,1 V·A
Reference current (Iref)	.../ 5 A
Maximum current	10 A
Minimum current measurement	< 0,5 x Itr

Communications

Type	RS-485 / Ethernet
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Optical communication interface

Hardware	IEC 62056-21
Protocol	REE, based on IEC 870-5-160
Type	Serial;bi-directional

User interface

Resolution of the display	up to 8 digits (8 mm)
Display type	LCD

Memory

Memory capacity	Data: non-volatile memory, Setup and events: serial-flash
Write time	4000
Type	Serial flash

Standards

Standards	UNE-EN 50470-1 Electricity metering equipment (a.c.) -- Part 1: General requirements, tests and test conditions - Metering equipment -class indexes B-) UNE-EN 50470-3 Electricity metering equipment (a.c.) -- Part 3: Particular requirements - Static meters for active energy -class indexes B-) IEC 62052-11, IEC 62053-21, IEC 62053-22 (Standards for static active energy meters for alternating current of class 0.2s, 0.5s) UNE-EN 55022 (Conducted Emissions: Class B, Radiated Emissions: Class B) UNE-EN 61000-4-2, UNE-EN 61000-4-3, UNE-EN 61000-4-4, UNE-EN 61000-4-5, UNE-EN 61000-4-6, UNE-EN 61000-4-8, UNE-EN 61000-4-11
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Internal battery

Type	Lithium
Useful life	> 20 years @ 30 °C

PLC

Hardware	CENELEC A or CENELEC B
Protocol	CirPLC & PEP (PLC Encapsulated Protocol)
Modulation system	DSCK with repeater system

Measurement accuracy

Reactive energy measurement (kvarh)	IEC 62053-23 (Class 0,5 / 1 / 2)
Active energy measurement (kWh)	IEC 62053-22 (Class 0,2S)

Features / performance

Billing closures	12 locks per contract. Programmable date and hour
Load curve	2 load curves, programmable integration time (1 ... 253 min)
Optional	Communications: RS-232 / PLC ,RS-485 / PLC, RS-232 / RS-232 , RS-485 / RS-485, RS-232 / RS-485, RS-232 / Ethernet, R-485 / Ethernet. Expansion boards: No inputs / outputs, 4 relay outputs (Rate Indicator), 2 relay inputs / 4 pulse outputs, 4 pulse inputs, Differential current measurement, 2 relay outputs /



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2 pulse outputs, / 2 pulse inputs

Tariff programming

12 days 10 types of data 9 types of tariffs 30 public holidays 12 special days

Clock

Source

Temperature compensated oscillator

Accuracy (EN 61038)

< 0,5 s / day (23 °C)

Type

Gregorian calendar

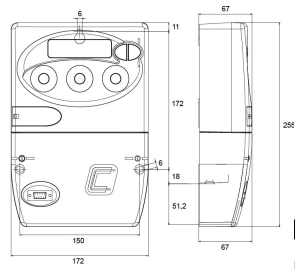
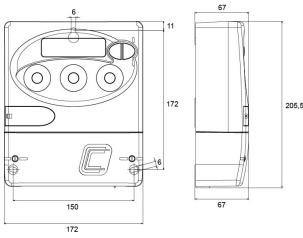


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Dimensions



Connections

