



212-ES4A-B0B17, Single-phase energy meter

Code: QB3C0 DESCATALOGADO

> Discon. relay: Yes

> Communications: PRIME > Class (Active/Reactive): B / 2

> System: Single-phase

> Measure: Direct

> Measurement Range (V): 230 > Measurement Range (A): 10 (60)

> Quadrants: 4

> Frequency (Hz): 50

Description

CIRWATT B is a multi-function digital single-phase meter, Class B in active energy and Class 2 in reactive energy. The meter complies with European legislation related to energy meters (MID) EN 50470-1 and EN 50470-3, which approves the installation of these meters in any country of the European Union.

It includes PLC / PRIME (Power Line Carrier) Communications through power cable and an optical communications port. Both use DLMS protocol. In addition, it can display information in case of power loss just pressing the button, it can store up to 6 channels of energy registers with 3 months of hourly load profile and it can limit maximum power consumed by end-user, through an internal disconnection relay which can be remotely managed using PLC communications

Application

The main application of the CIRWATT B meter is the metering of active and reactive energy for billing purposes, whenever a meter with high performance features is required at an optimised cost. PLC communications can be used for the remote download of all data recorded by the meter through a PLC-1000 concentrator or any other PRIME concentrator.

The circuit breaker integrated in the meter can be used to manage the supply remotely, opening/closing the circuit breaker and programming the hired power above a value that will activate the circuit breaker, opening it and reclosing it to guarantee the safety for the final user







Single-phase active and reactive energy meter with internal disconnection relay

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Specifications

AC power supply		
Tolerance	80 % 115 % Un	
Consumption	< 2 W; < 10 VA	
Frequency	50 60 Hz	
Nominal voltage	110 230 V (80 115 %)	
Battery specification		
Performance-guarantee	> 20 years @ 30 °C	
Туре	Lithium	
Mechanical characteristics		
Size (mm) width x height x depth	172 x 206 x 67 (mm)	
Envelope	DIN 43859	
Weight (kg)	0,716	
Environmental characteristics		
Relative humidity (without condensation)	95 % max.	
Storage temperature	-40 +85 °C	
Working temperature	-40 +70 °C	
Voltage measurement circuit		
Connection	Asymmetrical	
Consumption	< 2 W; 10 VA	
Nominal frequency	50 / 60 Hz	
Nominal voltage	230 V	
Current measurement circuit		
Consumption	0,024 VA @ 10 A	
Reference current (Iref)	10 A	
Maximum current	60 A	
Minimum current measurement	25 mA	
Optical communication interface		
Hardware	IEC 62056-21	
Protocol	DLMS	
Туре	Serial;bi-directional	
User interface		
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Resolution of the display	up to 6 digits (9 mm)
Display type	LCD
Memory	
Memory capacity	Data: non-volatile memory, Setup and events: serial-flash
Write time	90 days
Туре	Serial flash
PLC	
Hardware	CENELEC A
Protocol	DLMS / PRIME
Modulation system	OFDM with repeater system
Measurement accuracy	
Reactive energy measurement (kvarh)	UNE-EN 62053-21 (Class 2)
Active energy measurement (kWh)	EN 50470 (Class B) IEC 62053-21 (Class 1)
Features / performance	
Billing closures	12 locks per contract. Programable date and hour
Load curve	1 load curves, programmable integration time (1 60 min)
Tariff programming	12 days 24 types of data 6 types of tariffs 30 public holidays
Clock	
Source	Temperature compensated oscillator
Accuracy (EN 61038)	< 0,5 s/day
Туре	Gregorian calendar







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Dimensions

Connections





