

405-VT7A-A0B10

405-VT7A-A0B10, Three-phase energy meter indirect connection

Code: QBN10

- > Communications: RS-232 | Ethernet
- > Class (Active/Reactive): C (0,5S)/1
- > System: Three-phase
- > Measure: Indirect
- > Measurement Range (V): 3x57/100 ... 3x230/400
- > Measurement Range (A): .../ 1
- > Quadrants: 4
- > Frequency (Hz): 50

Description

The CIRWATT-B505 is an indirect three-phase meter, recorder, and multi-tariff device, classified as Class C for active energy as per the European MID Directive (EN 50470) or Class 0.5s as per IEC-62053-22, and reactive energy Class 1 as per IEC-62053-23. It offers multiple communication options and expansion modules, allowing it to adapt to any type of industrial or tertiary sector installation.

Application

CIRWATT B-505 is ideal for medium-voltage supplies using external voltage and current transformers. Offering solutions for large industry with a power between 450 kW and 10 MW (Consumer type 2). Available in 2 quadrants for energy consumption or 4 quadrants for photovoltaic plants (energy generation and consumption).

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Page 2 of 5



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Specifications

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				
Battery specification					
Performance-guarantee	> 20 years @ 30 °C				
Туре	Lithium				
Aechanical characteristics					
Size (mm) width x height x depth	172 x 255 x 67 (mm)				
Envelope	DIN 43859				
nvironmental characteristics					
Relative humidity (without condensation)	95 % max.				
Storage temperature	-40 +85 ℃				
Working temperature	-25 +70 °C				
/oltage measurement circuit					
Connection	Acumentical				
	Asymmetrical				
Consumption	< 2 W; 10 VA				
Consumption	< 2 W; 10 VA				
Consumption Nominal frequency	< 2 W; 10 VA 50 / 60 Hz				
Consumption Nominal frequency Nominal voltage	< 2 W; 10 VA 50 / 60 Hz				
Consumption Nominal frequency Nominal voltage Current measurement circuit	< 2 W; 10 VA 50 / 60 Hz 3x57/100 3x230/400 V				
Consumption Nominal frequency Nominal voltage Current measurement circuit Consumption	< 2 W; 10 VA 50 / 60 Hz 3x57/100 3x230/400 V < 0,1 V·A				
Consumption Nominal frequency Nominal voltage Current measurement circuit Consumption Reference current (Iref)	< 2 W; 10 VA 50 / 60 Hz 3x57/100 3x230/400 V < 0,1 V·A / 5 A				
Consumption Nominal frequency Nominal voltage Current measurement circuit Consumption Reference current (Iref) Maximum current	< 2 W; 10 VA 50 / 60 Hz 3x57/100 3x230/400 V < 0,1 V·A / 5 A 10 A				
Consumption Nominal frequency Nominal voltage Current measurement circuit Consumption Reference current (Iref) Maximum current Minimum current measurement	< 2 W; 10 VA 50 / 60 Hz 3x57/100 3x230/400 V < 0,1 V·A / 5 A 10 A				
Consumption Nominal frequency Nominal voltage Current measurement circuit Consumption Reference current (Iref) Maximum current Minimum current measurement Communication Network	< 2 W; 10 VA 50 / 60 Hz 3x57/100 3x230/400 V // 10 A < 0,1 V·A / 5 A 10 A < 0,5 x ltr				
Consumption Nominal frequency Nominal voltage Current measurement circuit Consumption Reference current (Iref) Maximum current Minimum current measurement Communication Network Protocol	< 2 W; 10 VA 50 / 60 Hz 3x57/100 3x230/400 V < 0,1 V·A / 5 A 10 A < 0,5 x ltr REE, basado en IEC 870-5-102				

Page 3 of 5



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Protocol	REE, based on IEC 870-5-172
Туре	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
Туре	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-
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 1 / 2)
Active energy measurement (kWh)	IEC 62053-22 (Class 0,5S) EN 50470 (Class C)
Features / performance	
Billing closures	12 locks per contract. Programable 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 / 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

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Accuracy (EN 61038)	< 0,5 s/day (23 °C)
Туре	Gregorian calendar
Serial communication	
Protocol	REE, basado en IEC 870-5-102

CIRWATT B 505

Indirect three-phase meter, recorder, and multi-tariff device, classified as Class C for active energy as per the European MID Directive (EN 50470) or Class 0.5s as per IEC-62053-22

CODE	ТҮРЕ	Measurement Range (V)	Measurement Range (A)	Communications	Class (Active/Reactive)	System	Measure
CIRWA	TT B 505						
QBP1I	405-MT5A-70B10	3x63,5/110	/5	RS-232 RS-232	C (0,5S)/1	Three-phase	Indirect
QBK10	405-VT5A-90B10	3x57/100 3x230/400	/5	RS-232 RS-485	C (0,5S)/1	Three-phase	Indirect
QBP1J	405-MT5A-80B10	3x63,5/110	/5	RS-485 RS-485	C (0,5S)/1	Three-phase	Indirect
QBP1E	405-MT5A-90B10	3x63,5/110	/5	RS-232 RS-485	C (0,5S)/1	Three-phase	Indirect
QBP1F	405-MT5A-A0B10	3x63,5/110	/5	RS-232 Ethernet	C (0,5S)/1	Three-phase	Indirect
QBP1K	405-MT5A-C0B10	3x63,5/110	/5	RS-485 Ethernet	C (0,5S)/1	Three-phase	Indirect
QBN00	405-VT7A-90B10	3x57/100 3x230/400	/ 1	RS-232 RS-485	C (0,5S)/1	Three-phase	Indirect
QBN10	405-VT7A-A0B10	3x57/100 3x230/400	/ 1	RS-232 Ethernet	C (0,5S)/1	Three-phase	Indirect
QBN30	405-VT7B-90B10	3x57/100 3x230/400	/ 1	RS-232 RS-485	C (0,5S)/1	Three-phase	Indirect

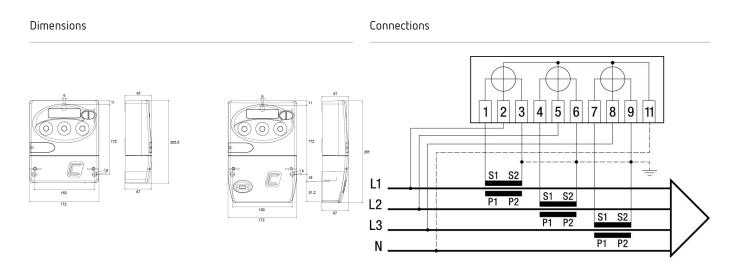
Please contact us for other configurations (Inputs, outputs and other communications)



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