



405-MT5A-90B10, Three-phase energy meter indirect connection

Code: QBP1E

> Type Consumer: 2

> Communications: RS-232 | RS-485 > Class (Active/Reactive): C (0,5S)/1

> System: Three-phase > Measure: Indirect

> Measurement Range (V): 3x63,5/110 > Measurement Range (A): .../5

> 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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Specifications

Tolerance	80 % 115 % Un				
Consumption	< 2 W; < 10 VA				
Frequency	50 / 60 Hz				
Nominal voltage	3x63.5/110 V				
Battery specification					
Performance-guarantee	> 20 years @ 30 °C				
Туре	Lithium				
Mechanical characteristics					
Size (mm) width x height x depth	172 x 255 x 67 (mm)				
Weight (kg)	1,9				
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	3x63,5/110 V				
Current measurement circuit					
Consumption	< 0,1 V·A				
Reference current (Iref)	/ 5 A				
Maximum current	10 A				
Minimum current measurement	< 0,5 x ltr				
Jser 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				







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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-EN 61000-4-11				
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)				
Serial communication					
Protocol	REE, basado en IEC 870-5-102				
Technology / Type	RS-232 RS-485				

CIRWATT B 505

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CODE	TYPE	Measurement Range (V)	Measurement Range (A)	Communications	Class (Active/Reactive)	System	Measure				
CIRWA	CIRWATT B 505										
QBP1I	405-MT5A-70B10	3x63,5/110	/5	RS-232 RS-232	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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Dimensions Connections





