

405-VT5A-90B10-TRMC400-1000-3.0.1, Three-phase energy meter indirect connection

Code: QBK10T08 (CONSULTAR DISPONIBILIDAD)

- > Type Consumer: 3
- > Communications: RS-232 | RS-485
- > Class (Active/Reactive): B (1) / 2
- > System: Three-phase
- > Measure: Indirect
- > Measurement Range (V): 3x230/400
- > 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).

Circutor



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

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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
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)
Envelope	DIN 43859
Weight (kg)	1,1
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	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 ltr
Optical communication interface	
Hardware	IEC 62056-21
Protocol	REE, based on IEC 870-5-116
Туре	Serial;bi-directional





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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
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 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	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
Accuracy (EN 61038)	< 0,5 s/day (23 °C)
Туре	Gregorian calendar

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	TYPE	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





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CODE	TYPE	Measurement Range (V)	Measurement Range (A)	Communications	Class (Active/Reactive)	System	Measure
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
QBNOO	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

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