



410-QD1A-90B10-TRIPLE TARIFA-3.0A, Three-phase energy meter indirect connection

Code: QB4B0D01

> Type Consumer: 4

> Communications: RS-232 | RS-485 > Class (Active/Reactive): B (1) / 2

> System: Three-phase> Measure: Indirect

> Measurement Range (V): 3x230/400 > Measurement Range (A): 10 (100)

> Quadrants: 4 > Frequency (Hz): 50

Description

CIRWATT-B410D is a direct three-phase meter, ideal for three-phase industrial applications. It is classified as Class B for active energy as per the European MID Directive (EN 50470) or Class 1 as per IEC-62053-21. It offers multiple communication options and expansion modules, allowing it to adapt to any type of direct measurement installation.

Application

CIRWATT-B410D is suitable for low-voltage applications (for currents up to 100 or 120 A maximum). Offering solutions for a wide variety of installations such as: shopping centres, small industry and high-consumption residential areas (Consumer type 4). Available in 2 quadrants for energy consumption or 4 quadrants for photovoltaic plants (energy generation and consumption).







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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 230 (400) V - 3 x 127 (230) 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	3 x 230/400 V (Request for other configurations)
Current measurement circuit	
Consumption	< 0,1 V·A
Reference current (Iref)	10 A
Maximum current	100 A
Minimum current measurement	< 0,5 x ltr
Optical communication interface	
Hardware	IEC 62056-21
Protocol	REE, based on IEC 870-5-111
Туре	Serial;bi-directional







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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 / pulse outputs, 4 pulse inputs, Differential current measurement, 2 relay output 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)			

CIRWATT B 410D

Serial communication

Technology / Type

Protocol

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REE, basado en IEC 870-5-102

RS-232|RS-485





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CODE	TYPE	Measurement Range (V)	Measurement Range (A)	Communications	Class (Active/Reactive)	System	Measure			
CIRWATT B	CIRWATT B 410D									
QB4B0D01	410-QD1A-90B10-TRIPLE TARIFA-3.0A	3x230/400	10 (100)	RS-232 RS-485	B (1) / 2	Three-phase	Indirect			
QB4B0D60	410-QD1A-90B10-TRIPLE TARIFA-3.0TD	3x230/400	10 (100)	RS-232 RS-485	B (1) / 2	Three-phase	Indirect			
QB4A0	410-QD1A-70B10	3x230/400	10 (100)	RS-232 RS-232	B (1) / 2	Three-phase	Direct			
QB4B0	410-QD1A-90B10	3x230/400	10 (100)	RS-232 RS-485	B (1) / 2	Three-phase	Direct			
QB4E0	410-QD1A-80B10	3x230/400	10 (100)	RS-485 RS-485	B (1) / 2	Three-phase	Direct			
QB4C0	410-QD1A-A0B10	3x230/400	10 (100)	RS-232 Ethernet	B (1) / 2	Three-phase	Direct			
QB4D0	410-QD1A-C0B10	3x230/400	10 (100)	RS-485 Ethernet	B (1) / 2	Three-phase	Direct			
QB4H0	410-QD1B-90B10	3x230/400	10 (100)	RS-232 RS-485	B (1) / 2	Three-phase	Direct			
QB7A0	410-ND1A-70B10	3x127/220	10 (100)	RS-232 RS-232	B (1) / 2	Three-phase	Direct			
QB4I0	410-QD1B-A0B10	3x230/400	10 (100)	RS-232 Ethernet	B (1) / 2	Three-phase	Direct			
QB7B0	410-ND1A-90B10	3x127/220	10 (100)	RS-232 RS-485	B (1) / 2	Three-phase	Direct			
QB7E0	410-ND1A-80B10	3x127/220	10 (100)	RS-485 RS-485	B (1) / 2	Three-phase	Direct			
QB7C0	410-ND1A-A0B10	3x127/220	10 (100)	RS-232 Ethernet	B (1) / 2	Three-phase	Direct			
QB7D0	410-ND1A-C0B10	3x127/220	10 (100)	RS-485 Ethernet	B (1) / 2	Three-phase	Direct			

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







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Dimensions



