

402-VT5A-C0B10, Three-phase energy meter indirect connection

Code: QBL30 DESCATALOGADO

- > Type Consumer: 1
- > Communications: RS-485 | Ethernet
- > Class (Active/Reactive): 0.2S/0.5
- > System: Three-phase
- > Measure: Indirect
- > Measurement Range (V): 3x57/100 ... 3x230/400
- > Measurement Range (A): .../5
- > Quadrants: 4
- > Frequency (Hz): 50

Description

The CIRWATT-B502 is an indirect three-phase meter, recorder, and multi-tariff device, classified as Class 0.2s as per IEC-62053-22 for active energy and Class 0.5 for reactive energy as per IEC-62053-23. It offers multiple communication options and expansion modules, allowing it to adapt to large industrial installations.

Application

CIRWATT B-502 is ideal for medium-voltage supplies using external voltage and current transformers. Offering solutions for large industries with a power capacity over 10 MW (Consumer type 1). 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 0.2s as per IEC-62053-22 for active energy

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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	
Mechanical characteristics		
Size (mm) width x height x depth	172 x 255 x 67 (mm)	
Envelope	DIN 43859	
Weight (kg)	0,67	
Invironmental characteristics		
Relative humidity (without condensation)	95 % max.	
Storage temperature	-40 +85 °C	
Working temperature	-25 +70 °C	
/oltage 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 870-5-160	
Туре	Serial;bi-directional	

User interface



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Resolution of the display	up to 8 digits (8 mm)					
Display type	LCD					
1 emory						
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: Clas 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					
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 0,5 / 1 / 2)					
Active energy measurement (kWh)	IEC 62053-22 (Class 0,2S)					
-eatures / 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					





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CIRWATT B 502

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CODE	ТҮРЕ	Measurement Range (V)	Measurement Range (A)	Communications	Class (Active/Reactive)	System	Measure	lmpulse output	Quadrants	Entrada cambio tarifa
CIRWATT B	410T									
QB860	410-QT5A-70B10	3x230/400	/5	RS-232 RS-232	B (1) / 2	Three-phase	Indirect			
CIRWATT B	505									
QBN40	410-VT7B-A0B10	3x57/100 3x230/400	/1	RS-232 Ethernet	C (0,5S)/1	Three-phase	Indirect			
CIRWATT B	410T									
QB8A0	410-QT5A-80B10	3x230/400	/5	RS-485 RS-485	B (1) / 2	Three-phase	Indirect			
QB870	410-QT5A-90B10	3x230/400	/5	RS-232 RS-485	B (1) / 2	Three-phase	Indirect			
QB870T21	410-QT5A-90B10-TRMC210-100-3.0.TD	3x230/400	/5	RS-232 RS-485	B (1) / 2	Three-phase	Indirect			
QB870T22	410-QT5A-90B10-TRMC210-200-3.0.TD	3x230/400	/5	RS-232 RS-485	B (1) / 2	Three-phase	Indirect			
QB870T23	410-QT5A-90B10-TRMC210-500-3.0.TD	3x230/400	/5	RS-232 RS-485	B (1) / 2	Three-phase	Indirect			
QB880	410-QT5A-A0B10	3x230/400	/5	RS-232 Ethernet	B (1) / 2	Three-phase	Indirect			
QB890	410-QT5A-C0B10	3x230/400	/5	RS-485 Ethernet	B (1) / 2	Three-phase	Indirect			
QBJ10	410-VT5A-90B10	3x57/100 3x230/400	/5	RS-232 RS-485	B (1) / 2	Three-phase	Indirect			
QBG60	410-NT5A-70B10	3x127/220	/5	RS-232 RS-232	B (1) / 2	Three-phase	Indirect			
QBJ20	410-VT5A-A0B10	3x57/100 3x230/400	/5	RS-232 Ethernet	B (1) / 2	Three-phase	Indirect			
QBG70	410-NT5A-90B10	3x127/220	/5	RS-232 RS-485	B (1) / 2	Three-phase	Indirect			
QB8D0	410-QT5B-90B10	3x230/400	/5	RS-232 RS-485	B (1) / 2	Three-phase	Indirect			
QBGA0	410-NT5A-80B10	3x127/220	/5	RS-485 RS-485	B (1) / 2	Three-phase	Indirect			
QBG80	410-NT5A-A0B10	3x127/220	/5	RS-232 Ethernet	B (1) / 2	Three-phase	Indirect			
QB8E0	410-QT5B-A0B10	3x230/400	/5	RS-232 Ethernet	B (1) / 2	Three-phase	Indirect			
QBG90	410-NT5A-C0B10	3x127/220	/5	RS-485 Ethernet	B (1) / 2	Three-phase	Indirect			
QBJ60	410-VT5B-90B10	3x57/100 3x230/400	/5	RS-232 RS-485	B (1) / 2	Three-phase	Indirect			
QBH20	410-MT5A-70B10	3x63,5/110	/5	RS-232 RS-232	B (1) / 2	Three-phase	Indirect			
QBJ70	410-VT5B-A0B10	3x57/100 3x230/400	/5	RS-232 Ethernet	B (1) / 2	Three-phase	Indirect			
QBH30	410-MT5A-90B10	3x63,5/110	/5	RS-232 RS-485	B (1) / 2	Three-phase	Indirect			
QBNOB	410-QT7A-90B10	3x230/400	/ 1	RS-232 RS-485	B (1) / 2	Three-phase	Indirect			
QBH61	410-MT5A-80B10	3x63,5/110	/5	RS-485 RS-485	B (1) / 2	Three-phase	Indirect			
QBH40	410-MT5A-A0B10	3x63,5/110	/5	RS-232 Ethernet	B (1) / 2	Three-phase	Indirect			
QBN1B	410-QT7A-A0B10	3x230/400	/ 1	RS-232 Ethernet	B (1) / 2	Three-phase	Indirect			
QBH50	410-MT5A-COB10	3x63,5/110	/5	RS-485 Ethernet	B (1) / 2	Three-phase	Indirect			
QBNOJ	410-VT7A-90B10	3x57/100 3x230/400	/ 1	RS-232 RS-485	B (1) / 2	Three-phase	Indirect			
QBN1J	410-VT7A-A0B10	3x57/100 3x230/400	/ 1	RS-232 Ethernet	B (1) / 2	Three-phase	Indirect			
QBN2B	410-QT7B-90B10	3x230/400	/ 1	RS-232 RS-485	B (1) / 2	Three-phase	Indirect			
QBN3B	410-QT7B-A0B10	3x230/400	/ 1	RS-232 Ethernet	B (1) / 2	Three-phase	Indirect			
QBN2J	410-VT7B-90B10	3x57/100 3x230/400	/ 1	RS-232 RS-485	B (1) / 2	Three-phase	Indirect			
QBN3J	410-VT7B-A0B10	3x57/100 3x230/400	/ 1	RS-232 Ethernet	B (1) / 2	Three-phase	Indirect			
CIRWATT B	410D									
	410-QD1A-90B10-TRIPLE TARIFA-3.0A	3x230/400	10 (100)	RS-232 RS-485	B (1) / 2	Three-phase	Indirect			
	410-QD1A-90B10-TRIPLE TARIFA-3.0TD	3x230/400	10 (100)	RS-232 RS-485	B (1) / 2	Three-phase				
QB4A0	410-QD1A-70B10	3x230/400	10 (100)	RS-232 RS-232	B (1) / 2	Three-phase				





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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			
QB4CO	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			
QB410	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			
QB7CO	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			
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			
CIRWATT	B 502									
QBP1P.	402-MT5A-70B10	3x63,5/110	/5	RS-232 RS-232	0.25/0.5	Three-phase	Indirect			
QBP1A.	402-MT5A-90B10	3x63,5/110	/5	RS-232 RS-485	0.25/0.5	Three-phase	Indirect			
QBP1Q.	402-MT5A-80B10	3x63,5/110	/5	RS-485 RS-485	0.25/0.5	Three-phase	Indirect			
QBP1B.	402-MT5A-A0B10	3x63,5/110	/5	RS-232 Ethernet	0.25/0.5	Three-phase	Indirect			
QBP1R.	402-MT5A-C0B10	3x63,5/110	/5	RS-485 Ethernet	0.25/0.5	Three-phase	Indirect			
QBP1C	402-MT5B-90B10	3x63,5/110	/5	RS-232 RS-485	0.25/0.5	Three-phase	Indirect			
QBP1D	402-MT5B-A0B10	3x63,5/110	/5	RS-232 Ethernet	0.25/0.5	Three-phase	Indirect			
CIRWATT	B101									
QBM03	210-ES7A-01B20	230	5 (65)	-	B (1)			1	Abs.	0
QBM07	210-ES7A-0EB20	230	5 (65)	-	B (1)			0	Abs.	1
CIRWATT	B102									
QBM83	212-ES7A-21B20	230	5 (65)	RS-485 (IEC 62056-21)	B (1) / 2			1	Abs.	0
QBM85	212-ES7A-23B20	230	5 (65)	RS-485 (IEC 62056-21)	B (1) / 2			0	Abs.	0
QBM87	212-ES7A-2EB20	230	5 (65)	RS-485 (IEC 62056-21)	B (1) / 2			0	Abs.	1
QBMD3	212-ES7A-21B20	230	5 (65)	RS-485 (Modbus/RTU)	B (1) / 2			1	Abs.	0
QBMD5	212-ES7A-23B20	230	5 (65)	RS-485 (Modbus/RTU)	B (1) / 2			0	Abs.	0
QBMD7	212-ES7A-2EB20	230	5 (65)	RS-485 (Modbus/RTU)	B (1) / 2			0	Abs.	1

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





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Dimensions

Connections

×

×

