



410-QT5A-90B10-TRMC210-200-3.0.2, Three-phase energy meter indirect connection

Code: QB870T22

> 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

CIRWATT-B410T is an indirect multi-rate three-phase meter and logger, Class B in active energy as per the European MID Directive (EN 50470), or Class 1 as per IEC-62053-21 and Class 2 reactive energy as per IEC-62053-23, with multiple communications options and expansion modules that allow it to be adapted to any type of industrial and tertiary sector installation.

Application

CIRWATT B-410T is perfect for low- and medium-voltage supplies using external current transformers. Offering solutions for a wide variety of installations such as: shopping centres, industries and high-consumption residential areas (Consumer type 3). Available in 2 quadrants for energy consumption or 4 quadrants for photovoltaic plants (energy generation and consumption).







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Specifications

| 80 % 115 % Un < 2 W; < 10 VA 50 / 60 Hz 3 x 230 (400) V > 20 years @ 30 °C Lithium | | |
|---|--|--|
| 50 / 60 Hz 3 x 230 (400) V > 20 years @ 30 °C | | |
| 3 x 230 (400) V > 20 years @ 30 °C | | |
| > 20 years @ 30 °C | | |
| | | |
| | | |
| Lithium | | |
| | | |
| | | |
| 172 x 255 x 67 (mm) | | |
| DIN 43859 | | |
| 1,9 | | |
| | | |
| 95 % max. | | |
| -40 +85 °C | | |
| -40 +70 °C | | |
| | | |
| Asymmetrical | | |
| < 2 W; 10 VA | | |
| 50 / 60 Hz | | |
| 3x230/400 V | | |
| | | |
| < 0,1 V·A | | |
| / 5 A | | |
| 10 A | | |
| < 0,5 x ltr | | |
| | | |
| IEC 62056-21 | | |
| REE, based on IEC 870-5-136 | | |
| Serial;bi-directional | | |
| | | |







Indirect multi-rate three-phase meter and logger, Class B in active energy as per the European MID Directive (EN 50470), or Class 1 as per IEC-62053-21

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| User | interface | ì |
|------|-----------|---|

| Oser interrace | |
|--|---|
| 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 |
| Serial communication | |
| Protocol | REE, basado en IEC 870-5-102 |
| Technology / Type | RS-232 RS-485 |
| | |

CIRWATT B 410T

Indirect multi-rate three-phase meter and logger, Class B in active energy as per the European MID Directive (EN 50470), or Class 1 as per IEC-62053-21







Indirect multi-rate three-phase meter and logger, Class B in active energy as per the European MID Directive (EN 50470), or Class 1 as per IEC-62053-21

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| CODE | ТҮРЕ | Measurement Range (V) | Measurement Range (A) | Communications | Class (Active/Reactive) | System | Measure |
|-----------|-----------------------------------|-----------------------|--------------------------|-------------------|----------------------------|-------------|----------|
| 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-C0B10 | 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 |

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







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Dimensions



