

405-VT5A-90B10-TRMC400-1000-3.0.2, Three-phase energy meter indirect connection

Code: QBK10T24 DESCATALOGADO

- > 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



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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 × ltr |
| Optical communication interface | |
| Hardware | IEC 62056-21 |
| Protocol | REE, based on IEC 870-5-117 |
| 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 |
| Serial communication | |
| Protocol | REE, basado en IEC 870-5-102 |
| FIULULUI | |

CIRWATT B 505

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| CODE | TYPE | Measurement Range (V) | Measurement Range (A) | Communications | Class (Active/Reactive) | System | Measure |
|--------|----------------|-----------------------|--------------------------|-------------------|----------------------------|-------------|----------|
| CIRWAT | FT 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

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