EC3-6TA

6A three-phase, four wires energy meter.

WIRELESS NETWORK FOR ENERGY & ENVIRONMENT CUSTOM APPLICATIONS

Technical Information

Power supply	• Power supplied from the voltage circuit • Nominal measurement voltage ±20% • Max consumption (*for each phase*): 7.5 VA - 0.5 W • CT burden (*for each phase*): 0.04 VA • Nominal frequency: 50/60 Hz
Voltage - (*Nominal values*)	A) 3x230/400 V 50 Hz D) 3x230/400 ÷3x240/415 V 50/60 Hz
Current	• Startingt I_{st}: 2 mA • Minimum I_{min}: 10 mA • Transitional I_{tr}: 50 mA • Reference I_{ref} (I_n): 1 A • Maximum I_{max}: 6 A
Accuracy	• Active energy class 1 according to IEC/EN 62053-21 (*NO MID*) • Active energy class B according to EN 50470-3 (*MID*) • Reactive energy class 2 according to IEC/EN 62053-23
S0 outputs	• 2 passive optoisolated • Maximum values: 250 VAC-DC - 100 mA • Meter constant according to the set CT ratio: ⇒ 1,000 imp/kWh with CT ratio in range 1...4 ⇒ 200 imp/kWh with CT ratio in range 5...24 ⇒ 40 imp/kWh with CT ratio in range 25...124 ⇒ 8 imp/kWh with CT ratio in range 125...624 ⇒ 1 imp/kWh with CT ratio in range 625...3124 ⇒ 0.1 imp/kWh with CT ratio in range 3125...10,000 The measuring unit (*imp/kWh, imp/kvarh, imp/kVAh*) changes according to the assigned counter (*kWh, kvarh, kVAh*) • Pulse length: 50 ±2 ms
Tariff input	• Active optoisolated • Voltage range for tariff 2: 80÷276 V_{AC-DC}
Metrological LED	• Meter constant: 10,000 imp/kWh • Pulse length: 10 ±2 ms
Working conditions	• Operative: -25°C ÷ +55°C • Warehousing: -25°C ÷ +75°C • Relative humidity: 80% maximum without condensation
Sealing	IP51 frontal - IP20 terminals
Dimensions	90 x 720 x 64mm

Applications

- Totalization of the electric energy in the industry for each single line or machine.
- Measurement of energy generated by renewable sources such as solar, eolic, etc.
- Accounting and billing of consumptions in camp sites, malls, residential areas, naval ports, etc.
- Totalization of the electric consumption in hotels, congress centers, exhibition fairs.
- Accounting of the consumptions in buildings with executive office services.
- Internal allocation of the consumptions in timeshare civilian and industrial buildings.
- Realization of energy monitoring systems.
- Remote survey of the consumptions and compute of the costs.

Benefits

- Up to 30 instantaneous measurements, complete set of energy counters with 2 tariffs total and partial counters. Moreover partial counters can be started, stopped or reset.
- Suitable for CT with 1 or 5A secondary. CT ratio is programmable (1 ÷ 10,000).
- Phase sequence and diagnostic function for error signalling in case of wrong polarity connection.
- Available MID according to Swiss market (*MID S*). Reactive energy is not shown on energy meter display.

6A three-phase, three or four wires energy meter.

The **EC3-6TA** is a four DIN modules energy meter for energy measurement in industrial and civilian applications, available with MID certification and suitable for billing.

Combined with different external modules, the meter can communicate with other systems. COM modules are available for the most common field protocols.

Besides the energy, the meter can measure the main electrical parameters and makes them available on the COM port.

The LCD display shows energies and instantaneous powers.

The meter is built according EN 50470-3 standard. The accuracy of the active energy fulfills class B requirements. The accuracy of the reactive energy is compliant to EN 62053-23 class 2.

Wide backlighted LCD display with clear graphic symbols comprehensible at a glance.

Metrological LED on front panel and sealable terminal covers.

Available versions with different voltage working range for the connection on 3 or 4 wire network, suitable for balanced or unbalanced loads.

The analysis of the MTBF values, the accurate selection of components and the reduction of the internal working temperatures together with strict production and control standards guarantee a product with an excellent quality and a long lasting reliability.

The features shown may be subject to change without notice.

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