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LE-03d CT400

Electric energy meter, 3-phase



Do not dispose of this device in the trash along with other wastel According to the Law on Waste, electro coming from households free of charge and can give any amount to up to that end point of collection, as well as to store the occasion of the control of less of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the periornment and human health



Purpose

The LE-03d CT400 is a static (electronic) calibrated electricity meter of three-phase alternating current in a semidirect system. The meter is designed to work with current transformers with a primary current of 400 A and a secondary current of 5 A. The maximum measured current of the system is determined by the value of the primary current of the current transformer used. When using transformers with dedicated parameters, the meter shows the actual value of electricity consumed by the system.

Functioning

A special electronic system under the influence of flowing current and applied voltage in each phase generates pulses proportional to the energy drawn in the respective phase. Energy consumption in the phase is indicated by a flashing of corresponding LED (L1, L2, L3). The sum of the three phase pulses is indicated by a flashing LED and converted into energy absorbed throughout the three-phase system. Its value is displayed by the segment LCD display.

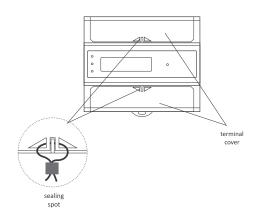
Pulse output

The meter is equipped with pulse output open collector (OC type). This allows you to connect another pulse device (SO) that reads pulses generated by the meter.

No additional connected equipment is required for proper operation of the meter.

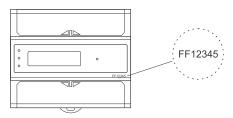
Sealing

The meter has sealable input and output terminal covers to prevent any attempts to bypass the meter.

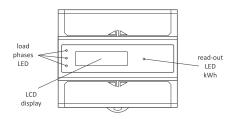


Meter number

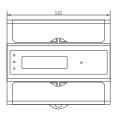
The meter is marked with individual serial number allowing its unambiguous identification. The marking is laser engraved and cannot be removed).

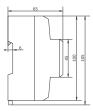


Front description



Dimensions

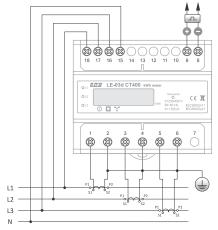




Mounting

- 1. Disconnect the power supply.
- 2. The indicator mounted on a rail in the distribution box.
- 3. Connect the voltages of controlled phases to the terminals in accordance with the markings 18 (L1), 17 (L2), 16 (L3).
- 4. Connect the transformers to the phase conductors and connect the secondary outputs to the terminals in accordance with the markings 1-2 (L1), 3-4 (L2), 5-6 (L3).
- 5. N-wire connect to terminal 15.
- 6. In order to increase the safety of the system and the measurement accuracy, it is recommended to ground the terminals (S2) of the secondary side of current transformers.
- 7. Additional pulse receiver connected (optional) to terminals 9 (+) i 8 (–).
- Additional pulse receiver is not required

Schemat podłączenia



Current measurement circuits:

- 1-2 L1 phase
- 3-4 L2 phase
- 5-6 L3 phase

Pulse output (open collector):

- 8 transistor emitter (-)
- 9 transistor collector (+)

cont. on next page

The circuit for measuring the voltage and supply of the meter:

4-wire

27 V DC

27 mA 150 pulses/kWh

35 ms

-25÷55°C

25 mm² screw terminals

15 neutral N-wire

16 L3 phase

17 L2 phase

18 L1 phase

Technical data

maximum voltage

maximum current

working temperature

pulse constant pulse time

terminal

installation

rated voltage 3×230/400 V minimum measured current 0 04 A 3×1 5 A hase current 3×5 A maximum current voltage measuring range 160÷265 V transformer type 400/5 A measurement accuracy (IEC62052-11, IEC62053-21) rated frequency 50 Hz insulation protection class П own power consumption <10 VA; <2 W indication range 0÷9999999 kWh 150 pulses/kWh constant 3× red LED current consumption signalling read-out signalling red LED pulse output open collector tvpe

dimensions mounting ingress protection 7 modules (122 mm) on TH-35 rail IP20

Warranty

F&F products are covered by a 24-month warranty from the date of purchase. The warranty is only valid with proof of purchase. Contact your dealer or contact us directly.

CE declaration

F&F Filipowski L.P. declares that the device is in conformity with the essential requirements of the Low Voltage Directive (LVD) 2014/35/EU and the Electromagnetic Compatibility (EMC) Directive 2014/30/UE.

The CE and MID Declaration of Conformity, along with the references to the standards in relation to which conformity is declared, can be found www.fif.com.pl on the product subpage.

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General work safety conditions

- » Please read the instructions carefully before installation.
- » The device should be installed and operated by qualified personnel who are familiar with its design, operation, and associated risks.
- » Do not install a meter that is damaged or incomplete.
- » The user is responsible for proper grounding of the system, proper selection, installation, and efficiency of other devices connected to the meter, including safety devices such as overcurrent, residual current and overvoltage circuit breakers.
- » Before connecting the power supply, make sure that all cables are connected correctly.
- » It is essential to observe the operating conditions of the meter (supply voltage, humidity, temperature).
- » To avoid electric shock or damage to the meter, turn off the power supply whenever the connection is changed.
- » Do not make any changes to the unit yourself. Doing so can result in damage to or improper operation of the device, which in turn can pose a threat to people operating it. In such cases, the manufacturer is not responsible for the resulting events and may refuse the provided warranty in the event of a complaint.