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LE-03d v.2
Electricity
consumption meter,
3-phase



Do not dispose of this device in the trash along with other waste!

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 purchase of new equipment (in accordance with the principle of old-for-new, regardless of brand). Electro thrown in the trash or abandoned in nature, pose a threat to the environment and human health.



Compliance

MID Directive
Certificate

2014/32/EU
0120/SGS0670

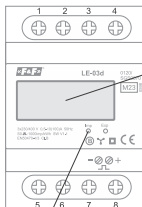
Purpose

The LE-03d v.2 meter is an electronic, legalised (MID declaration), 3-phase, 4-wire electricity meter for direct metering. The meter is also equipped with an illuminated reading field.

Functioning

Under the influence of the flowing current and applied voltage, the meter precisely measures energy and active power. The current data is displayed on a 7-character LCD. An increase in energy is additionally indicated by a flashing LED on the front of the unit. The meter is also equipped with a pulse output to signal energy consumption.

Front description



- 1 Display
- 2 Active energy consumption indicator

Measured values

Total active energy (1-way meter)

[kWh]

Functions

The LE-03d v.2 meter makes it possible to record and display information about the total active energy consumption:

No	Function	Format	Unit	View
1	Total active energy	6+1	kWh	

Pulse output

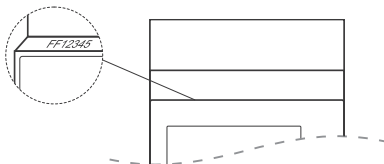
The indicator has a SO+ SO- pulse output. This allows you to connect another pulse device (SO) that reads impulses generated by the meter. The number of pulses depends on the total energy increment, with 1.000 pulses for each kWh of energy. No additional device is required for the correct operation of the meter.

Sealing

The meter has the option of sealing the input and output terminals, preventing the meter from being bypassed.

Number of the meter

The meter is marked with an individual factory number to enable its unambiguous identification. The marking is indelible (laser engraving).



Mounting

1. Disconnect power supply.
2. Mount meter on a rail in distribution box.
3. Open terminal covers.
4. Connect the power supply to the terminals 1 (L1 IN), 2 (L2 IN), 3 (L3 IN), 4 (N IN).
5. Connect the circuit to be measured or a single consumer to the terminals 5 (L1 OUT), 6 (L2 OUT), 7 (L3 OUT), 8 (N OUT).
6. Additional pulse receiver connected to terminals (+) and (-).
The terminals are located under the bottom cover of the meter.



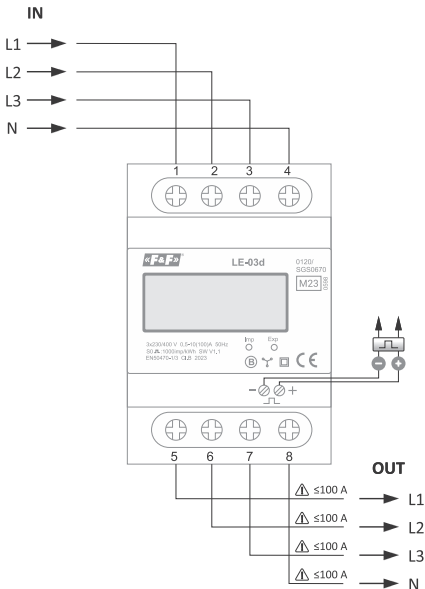
Additional pulse receiver is not required.

7. Put the meter terminals covers.

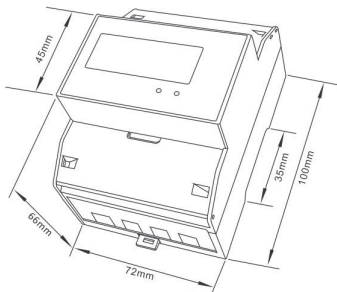


Particular attention must be paid to the maximum currents flowing in the current circuits, especially the neutral conductor. In the event of high phase currents, there is a risk that the neutral current will exceed the limit value of 100A. **In this case, the output of the neutral conductor must not be connected to terminal 8!**

Wiring diagram



Dimensions



Technical data

installation	3-phase, 4-wire
reference voltage	3×230/400 V AC
minimum current	0.5 A
base current	3×10 A
maximum current	3×100 A
minimum detection current	0.04 A
voltage measurement range	180÷276 V
measurement accuracy (EN50470-1/3)	B class
rated frequency	50 Hz
insulation protection class	II
housing	PC material (UL94V-0)
overload capacity	30×I _{max} /10 ms
measurement category (CAT)	III
mechanical resistance	M1

electromagnetic resistance	E2
insulation	4 kV/1 min.; 6 kV/1.2 μ s
energy consumption of the meter	10 VA; 2 W
indication range	0÷9999999.9 kWh
display	7-digit, LCD backlit (white)
meter constant	1000 imp/kWh
readout indication	1×red LED
pulse output	
type	open collector
voltage maximum	30 V DC
current maximum	20 mA
pulse constant	1000 pulses/kWh
working temperature	-25÷55°C
terminal	
power circuits	4÷25 mm ² screw terminals
tightening torque	2.5 Nm
pulse output	0.2÷1.5 mm ²
tightening torque	0.2 Nm
dimensions	4.5 modules (75 mm)
mounting	on TH-35 rail
ingress protection	(indoors) IP51

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 & MID 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 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.