

# Calibrated electronic three-phase energy meter with MID approval

## EDZ12WB-5A



Only calibrated meters are permitted for billing according to §25 of the German Calibration Law. Failure to comply is an offence according to §19.

**Maximum current 3x5 A. Standby loss 1 watt per path only.**

Modulair device for DIN-EN 50 022 rail mounting.

6 modules = 108mm wide and 56mm deep.

Accuracy class B (1%). With SO interface as standard.

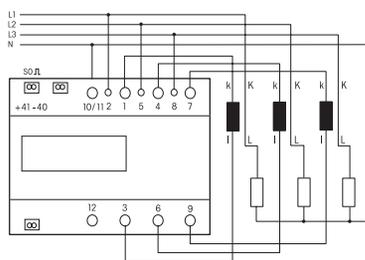
This three-phase energy meter measures active energy by means of the current between input and output. The internal power consumption of 1 watt active power per path is neither metered nor indicated.

**2 or 3 current transducers with secondary currents up to 5A can be connected.**

The inrush current is 2mA only.

### Typical connection

#### 4-wire-connection 3x230/400V



**Display of power consumption with a red LED, 10000 Imp./kWh.**

If no power is consumed the red LED is permanently illuminated. Errors are indicated on the display:

L1-L2-L3 blink if phases or input/output are inverted.

With a push-button next to the display the instantaneous values total power as well as power, voltage and current per phase can be indicated.

The N terminal **must** always be connected.

### Technical Data

Rated voltage	3x230/400V, 50 Hz,
Extended range	-20%/+15%
Rated current In	(5) A
(Limiting current I <sub>max</sub> )	
Internal consumption	1W per path
Active power	
Reading active power	LC display, 5 digits for kWh and 3 decimal digits
Accuracy class ±1%	B
Inrush current according to accuracy class B	2 mA
Ambient temperature limits	-25/+55°C
Interface	Pulse interface SO according to DIN EN 62053-31, potential free by an OptoMOS unit, max. 230V UC, 100 mA; Impulse length 100ms, 1000 Imp./kWh
Terminal cover sealable	Terminal cover claps
Protection degree	IP 50 for mounting in distribution cabinets with protection class IP 51
Maximum conductor cross section	N and L terminals 6mm <sup>2</sup> , SO terminals 2.5mm <sup>2</sup>
Compliance with	EN 62053-21, EN 50470 (MID)

In the standard mode the meter is in the standard menu. On the display the energy value of tariff 1 is indicated. At a short push of the button (<2 sec) it will be changed to the next menu item.

Through a longer push of the button (>5 sec) the display switches from each item of the standard menu back to the standard display. This happens also if the button is not operated for more than 5 minutes.

### Standard menu

Meaning	Display
Standard display, Tariff 1	L1 L2 L3 T1 00023625 kWh t1 In
Display test	L1 L2 L3 第1第2第3第4 8.8.8.8.8.8 kWh 8.8.8.8.8.8 * ! [ ] :
Tariff 1	L1 L2 L3 T1 00023625 kWh t1 In
U transducer constant	L1 L2 L3 T1 001 U-ConSt
I transducer constant	L1 L2 L3 T1 01 I-ConSt
Output constant per imp./kWh	L1 L2 L3 T1 1000 SOConSt
Pulse length per sec	L1 L2 L3 T1 0.100 SEC SOLEn6
Error register	L1 L2 L3 T1 00000000 Error
Firmware version	L1 L2 L3 T1 30300000 UErS <sub>i</sub> on

### Declaration of Conformity CE

The product complies with the EC type examination certificate and meets all requirements of the directive 2004/22/EC of the European Parliament and of the Council of 31 March 2004 on measuring instruments, implemented by the Fourth Ordinance for amending the Verification Ordinance dated 8 February 2007.

Following standards are applied:

EN 50470-1

Single-phase energy meters – part 1:

General requirements, tests and test conditions - metering equipment (class indexes A, B and C)

EN 50470-3

Single-phase energy meters – part 3:

Particular requirements - static meters for active energy (class indexes A, B and C)

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### Warning!

**Only a trained electrician may install this equipment, otherwise there is a risk of fire or electric shock.**