

Calibrated electronic double-tariff three-phase energy meter with MID approval

EDZ12B-T2-3x65A



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 3x65A. Standby loss 1 watt per path only.

Modular device for DIN-EN 50 022 rail mounting.

6 modules = 108mm wide and 56mm deep.

Accuracy class B (1%). With S0 interface as standard.

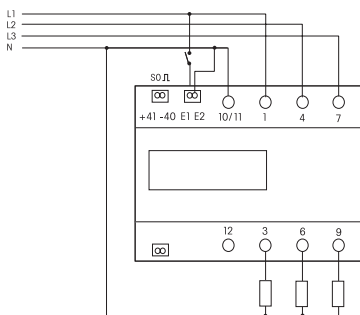
This direct metering double tariff three-phase energy meter measures active energy by means of the current between input and output. The internal power consumption of 1 watt active power per path is neither metered nor indicated.

1, 2 or 3 phase conductors with max. currents up to 65A can be connected. The inrush current is 20 mA.

Choice of tariff is carried out through 230V by terminals 13/15 and the registers can be read anytime without power supply.

Typical connection

4-wire-connection 3x230/400V



The active tariff is indicated on the display with T1 or T2.

With a push-button next to the display the meter readings tariff 1 and tariff 2, the instantaneous values total power as well as power, voltage and current per phase can be indicated.

This indication is also possible in case of a power failure due to a lithium battery that ensures the power supply for 30 hours.

Display of power consumption with a red LED, 1000 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.

Trifurcated rail mounting with sinistral N-connection possible.

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

Technical Data

Rated voltage	3x230/400V, 50 Hz,
Extended range	-20%/+15%
Rated current In (Limiting current I _{max})	5 (65)A
Internal consumption	1 W per path
Active power	
Reading active power	LC display, 6 digits for kWh and 2 decimal digits, with one key to select tariff 1 or tariff 2
Accuracy class ±1%	B
Inrush current according to accuracy class B	20mA

Ambient temperature limits	-20/+55°C
Interface	Pulse interface S0 according to DIN EN 62053-31, potential free by an OptoMOS unit, max. 230V UC, 100mA; Impulse length 30ms, 1000 Imp./kWh
Terminal cover sealable	Terminal cover claps
Protection degree	IP50 for mounting in distribution cabinets with protection class IP51
Maximum conductor cross section	N and L terminals 16 mm ² , S0 terminal 2.5 mm ²
Compliance with	EN 62053-21, EN 50470 (MID)

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.