GB CE

28 380 215 - **1**

Eltako

Three-phase energy meter DSZ15DZE-3x80A without MID

Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!

Temperature at mounting location: -25°C up to +55°C.
Storage temperature: -25°C up to +70°C.
Relative humidity: annual average value <75%.

Two-way three-phase meter. Maximum current 3x80 A. Standby loss 0.5 watt per path only.

Modulair device for DIN-EN 60715 TH35 rail mounting. 4 modules = 70 mm wide and 58 mm deep. Accuracy class B (1%). With S0 interface as standard.

It measures active energy by means of the current between input and output. The internal power consumption of 0.5 watt active power per path is neither metered nor indicated.

The active energy is added depending on the sign. Positive power in the meter means energy consumption, negative power means energy delivery.

The energy measurement is balanced. If the energy consumption (P positive) is greater than the energy supply (P negative), the meter reading T → is increased. If the energy supply is greater than the energy consumption, the meter reading T ← is increased. Energy consumption is shown with a right arrow → and energy supply is shown with a left arrow ← above the active bar in the display.

1, 2 or 3 phase conductors with max. currents up to 80 A can be connected. The inrush current is 40 mA.

The N terminal must always be connected.

Energy consumption and energy supply values are stored in non-volatile memory and are displayed again immediately after a power failure. The 7 segment LC display is also legible twice within a period of 2 weeks without power supply.

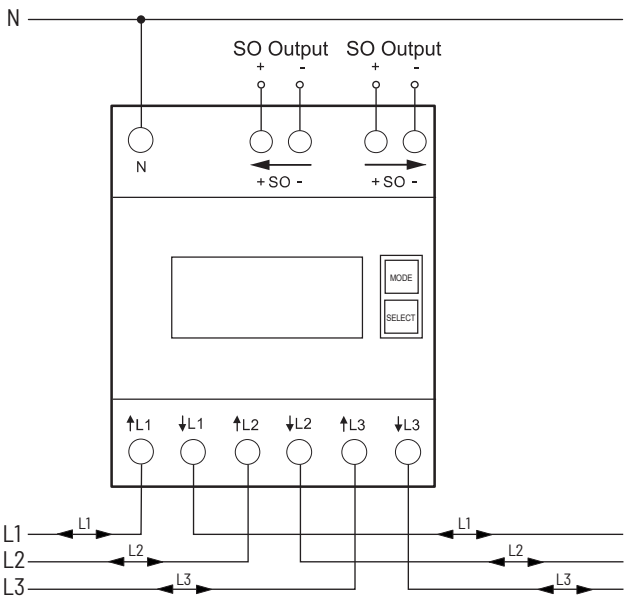
The power consumption and the power supply are indicated by an LED next to the display that flashes 1000 times per kWh. On the right next to the display are the keys MODE and SELECT. Press them to scroll through the menu. First the **background lighting** switches on. Then the total active energy per consumption and delivery, the active energy of the resettable memory consumption and delivery as well as the instantaneous power, voltage and current values for each phase conductor can be displayed.

Error message

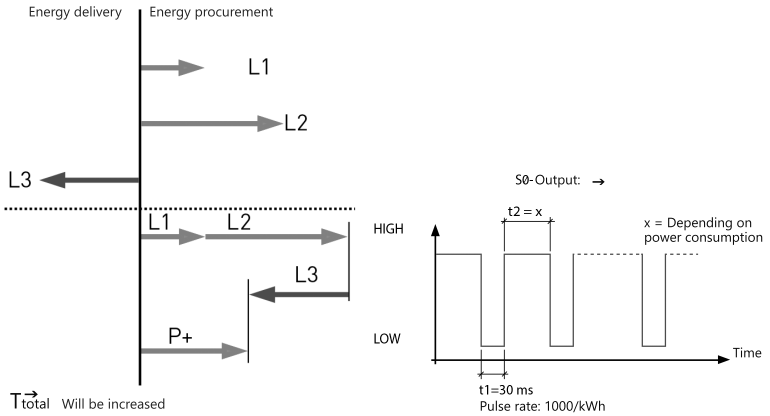
If a phase connection is missing, the corresponding phase is shown on the display.

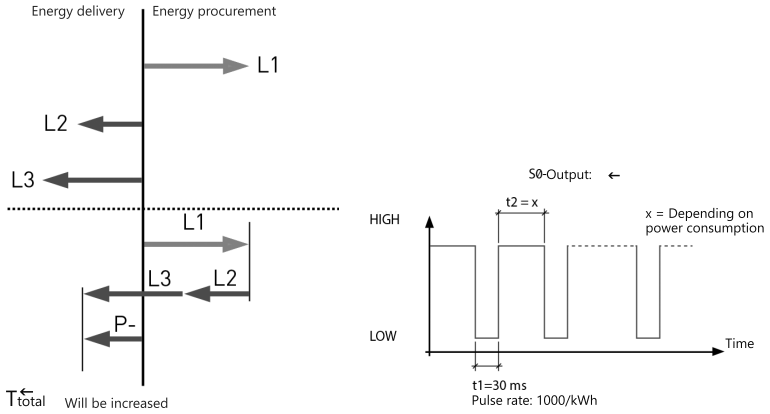
Typical connection:

4-wire-connection 3x230/400 V

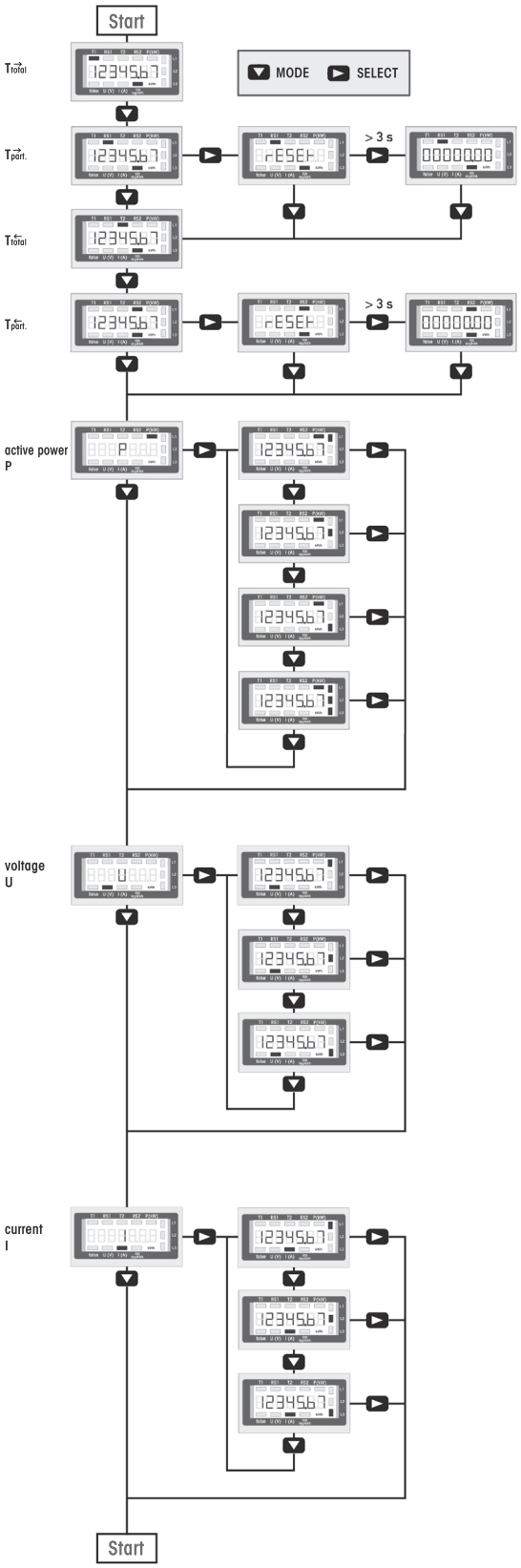


How it works





Menu guidance



Technical data

Rated voltage, extended range	3x230/400 V, 50 Hz, -20%/+15%
Reference current I_{ref} (Limiting current I_{max})	3x0.5 - 10(80)A
Internal consumption active power	0.5 W per path
Display	LC display 7 digits, therefrom 1 or 2 digits after the decimal point
Accuracy class ±1%	B
Inrush current according to accuracy class B	40 mA
Operating temperature	-25/+55°C
Interface	Pulse interface S0 according to DIN EN 62053-31, potential free by opto-coupler, max. 30 V DC/20 mA and min. 5 V DC, impedance 100 ohms, pulse length 30 ms, 1000 Imp./kWh
Terminal cover sealable	Terminal cover claps
Protection degree	IP50 for mounting in distribution cabines with protection class IP51
Maximum conductor cross section [1)]	L terminals 25 mm², N terminals 16 mm², S0 terminals 6 mm²
Recommended torque [2)]	L terminals 2,0N m (max. 2,5 Nm) N terminals 1,5 Nm (max. 2,0 Nm) S0 terminals 0,8 Nm (max. 1,2 Nm)
The energy meter is used indoors.	
Mechanical environmental conditions	class M1
Electromagnetic environmental conditions	class E2

1) The carrying capacity of cables and wires is defined in DIN VDE 0298-4.

2) The torques for screw terminals are mentioned in DIN EN 60999-1.
To avoid damages at the energy meter, the recommended torque values for each terminal must not be exceeded!

Manuals and documents in further languages:

http://eltako.com/redirect/DSZ15DZE-3*80A

Must be kept for later use!
We recommend the housing for operating instructions GBA14.

Eltako GmbH
D-70736 Fellbach
Technical Support English:
☎ +49 711 94350025
✉ technical-support@eltako.de
eltako.com

4626/2023 Subject to change without notice.