



Three-phase energy meter DSZ12DE-3x80A with display, without approval



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%.

Maximum current 3x80 A. Standby loss 0.5 watt per path only.

Modulair device for DIN-EN 60715 TH35 rail mounting in distribution cabinets with IP51 protection class.

4 modules = $70 \, \text{mm}$ wide and $58 \, \text{mm}$ deep.

Accuracy class B (1%). With SO 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.

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

The N terminal must always be connected.

The 7 segment LC display is also legible twice within a period of 2 weeks without power supply.

Power consumption is shown by a bar flashing at a rate of 100 times per kWh. **Designed as standard for using as double-tariff meter:** Switch over to a second tariff by applying 230V to terminals E1/E2.

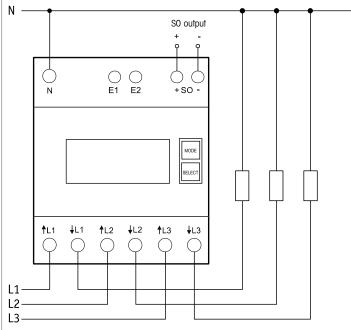
On the right next to the display are the keys MODE and SELECT. Press them to scroll through the menu. First the **background lighting** switches on. The display then shows the total active energy per tariff, the active energy of the resettable memory RS1 or RS2 as well as the instantaneous values of consumption, voltage and current per phase.

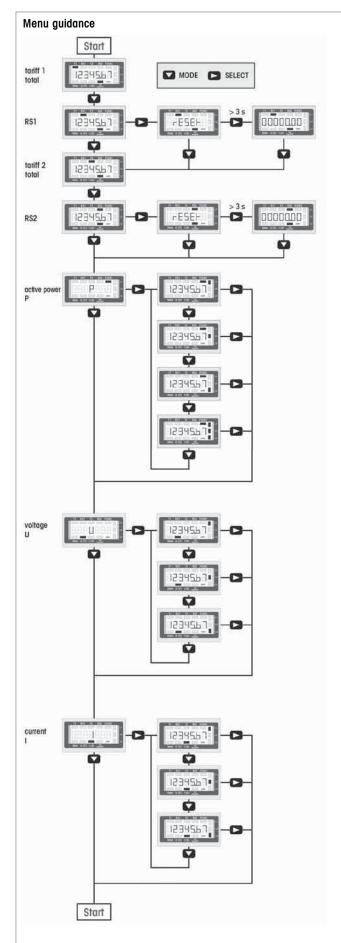
Error message (false)

When the phase conductor is missing or the current direction is wrong 'false' and the corresponding phase conductor are indicated on the display.

Typical connection:

4-wire-connection 3x230/400V





Accuracy class ±1% Inrush current according to accuracy class B Operating temperature Interface Pulse interface SO according potential max. 30V DC/2 pulse length Terminal cover sealable	3x230/400V, 50 Hz, -20%/+15% 3x10 (80) A 0.5 W per path LC display 7 digits, after the decimal point B 40 mA -25/+55°C
Internal consumption active power Reading therefrom 1 or 2 digits Accuracy class ±1% Inrush current according to accuracy class B Operating temperature Interface Pulse interface SO according potentic max. 30V DC/2 pulse length accuracy class B	0.5 W per path LC display 7 digits, after the decimal point B 40 mA -25/+55°C
Reading therefrom 1 or 2 digits Accuracy class ±1% Inrush current according to accuracy class B Operating temperature Interface Pulse interface S0 according potentimax. 30V DC/2 pulse length Terminal cover sealable	LC display 7 digits, after the decimal point B 40 mA -25/+55°C
therefrom 1 or 2 digits Accuracy class ±1% Inrush current according to accuracy class B Operating temperature Interface Pulse interface SO according potentimax. 30V DC/2 pulse length	after the decimal point B 40 mA -25/+55°C
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Operating temperature Interface Pulse interface SO according potentic max. 30V DC/2 pulse length according potentic potentic max. 30V DC/2	-25/+55°C
Interface Pulse interface S0 according potential max. 30V DC/2 pulse length and pulse leng	
potenti max. 30V DC/2 pulse length Terminal cover sealable	n to DIN FN 62053-31
	al free by opto-coupler, OmA and min. 5V DC, impedance 100 ohms, 30ms, 1000 Imp./kWh
Protection degree IP50 for mounting	Terminal cover clap
	in distribution cabines h protection class IP51
Maximum conductor cross section ¹⁾ S0 terminals and	L terminals 25 mm², N terminals 16 mm², d tariff terminals 6 mm²
	2,0Nm (max. 2,5Nm) 1,5Nm (max. 2,0Nm) 0,8Nm (max. 1,2Nm)
C€	EN 50470
Mechanical environmental conditions	class M1
Electromagnetic environmental conditions	

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

Must be kept for later use!

We recommend the housing for operating instructions GBA12.

Eltako GmbH

D-70736 Fellbach

Technical Support English:

Michael Thünte +49 176 13582514

⊠ marc.peter@eltako.de

eltako.com

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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!