

Three-phase energy meter DSZ12D-3x65A with display and MID 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 3x65A. 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 = 70mm wide and 58mm 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.

1, 2 or 3 phase conductors with max. currents up to 65A can be connected. The inrush current is 40mA.

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.

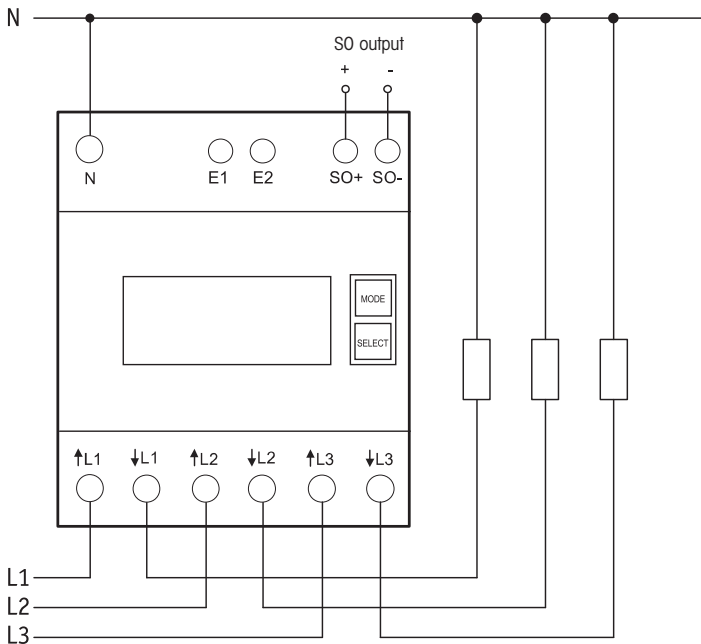
On the right next to the display are the keys MODE and SELECT. Press them to scroll through the menu. First the **background lighting** switches on. The display then shows the total active energy per tariff, the active energy of the resettable memory RS1 or RS2 as well as the instantaneous values of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

Error message (false)

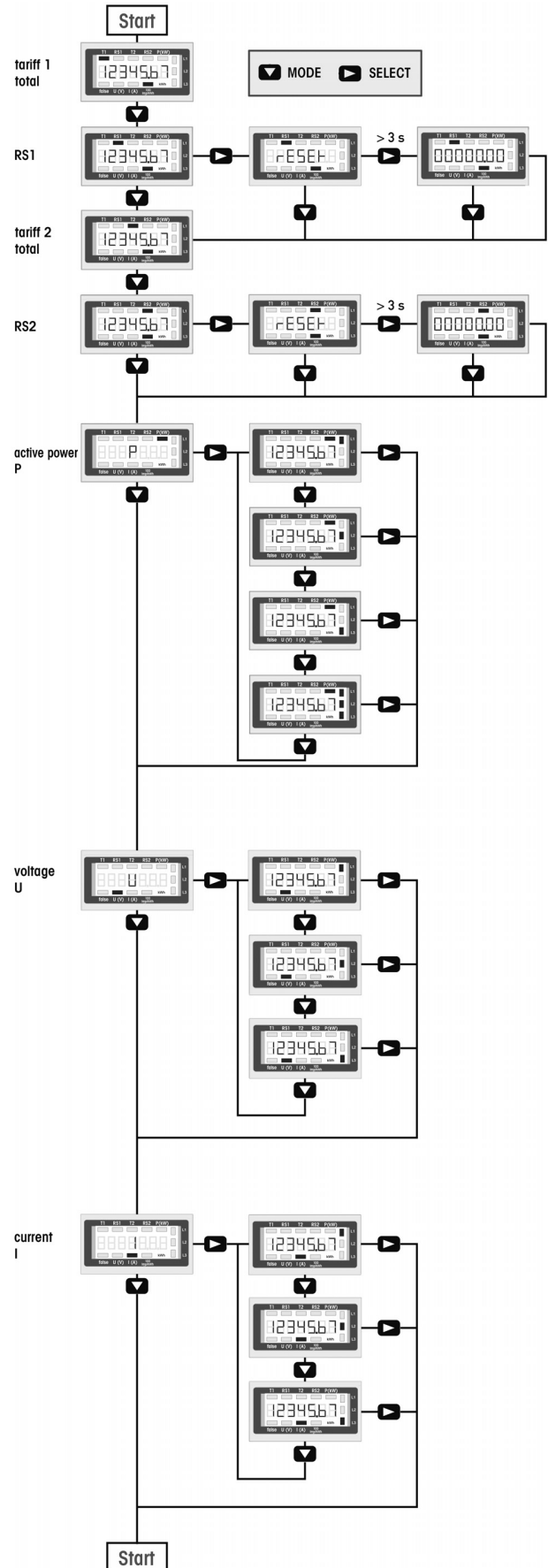
When the phase conductor is missing or the current direction is wrong 'false' and the corresponding phase conductor are indicated on the display.

Typical connection:

4-wire-connection 3x230/400V



Menu guidance



Technical data

Rated voltage, extended range	3x230/400V, 50Hz, -20%/+15%
Reference current I_{ref} (Limiting current I_{max})	3x10(65)A
Internal consumption active power	0.5W per path
Display	LC display 7 digits, therefrom 1 or 2 digits after the decimal point
Accuracy class $\pm 1\%$	B
Inrush current according to accuracy class B	40mA
Operating temperature	-25/+55°C
Interface	Pulse interface S0 according to DIN EN 62053-31, potential free by opto-coupler, max. 30V DC/20mA and min. 5V DC, impedance 100 ohms, pulse length 30ms, 1000 Imp./kWh
Terminal cover sealable	Terminal cover claps
Protection degree	IP50 for mounting in distribution cabins with protection class IP51
Maximum conductor cross section	N and L terminals 16mm ² , S0 terminals 6mm ²
EC type examination certificate	CH-MI003-08009
Mechanical environmental conditions	class M2
Electromagnetic environmental conditions	class E2

EC DECLARATION OF CONFORMITY

File name	FQKZ117
Product	Calibrated electronic three-phase energy meter with display and MID approval
Type designation	DSZ12D-3x65A (douple tariff)
EC type examination certificate	CH-MI003-08009
Eltako GmbH, D - 70736 Fellbach, herewith declares, on their own responsibility that the energy meter which this certificate refers to, is in accordance with the following standards:	
EN 50470 parts 1 and 3: October 2006 (electronic meters)	
CLC/FprTR 50579	
Directive 2004/22/EG of the European parliament and of the Council on measuring instruments	
<ul style="list-style-type: none">Annex I, essential requirementsAnnex MI-003, active electrical energy meters	
Conformity assessment body	Certification body METAS-Cert, no. 1259 CH-3003 Bern-Wabern
Issuer	Eltako GmbH
Hofener Straße 54, D-70736 Fellbach	
Place, Date	Fellbach, 09. august 2012
signed	Ulrich Ziegler, General Manager

Must be kept for later use!

We recommend the housing for operating instructions GBA14.

Eltako GmbH

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