

Three-phase energy meter DSZ12WD-3x5A
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%.

**CT operated energy meter with settable CT ratio and MID.
Maximum current 3x5A. 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 mm wide and 58 mm 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 0.5 watt active power per path is neither
metered nor indicated.

1, 2 or 3 phase conductors with max. currents up to 5 A can be connected.
The inrush current is 10 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 10 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. The
display then shows the total active energy, the active energy of the resettable
memory as well as the instantaneous values of consumption, voltage and
current per phase

The CT ratio can also be set. It is set to 5:5 at the factory and blocked with a
bridge over the terminals which are marked with 'JUMPER'. To adjust the CT
ratio to the installed transformer remove the bridge and reset the energy meter
according to the operation manual. Then block it again with the bridge.

Adjustable current transformer ratios: 5:5, 50:5, 100:5, 150:5, 200:5, 250:5,
300:5, 400:5, 500:5, 600:5, 750:5, 1000:5, 1250:5 and 1500:5.

Error message (false)

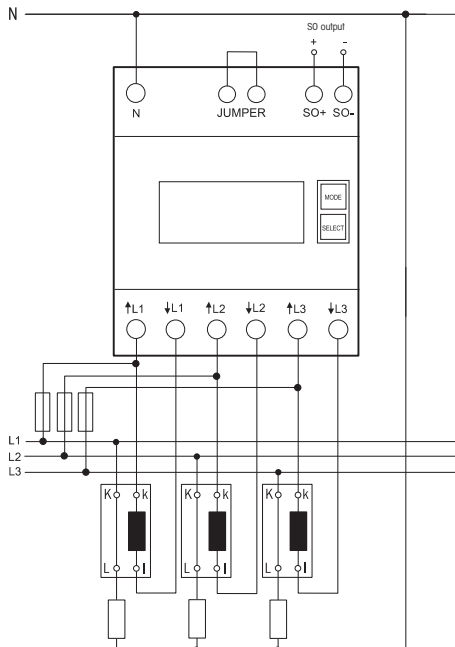
When the phase conductor is missing or the current direction is wrong 'false'
and the corresponding phase conductor are indicated on the display.

Important! Before working on the current transformers disconnect the voltage
paths of the energy meters.

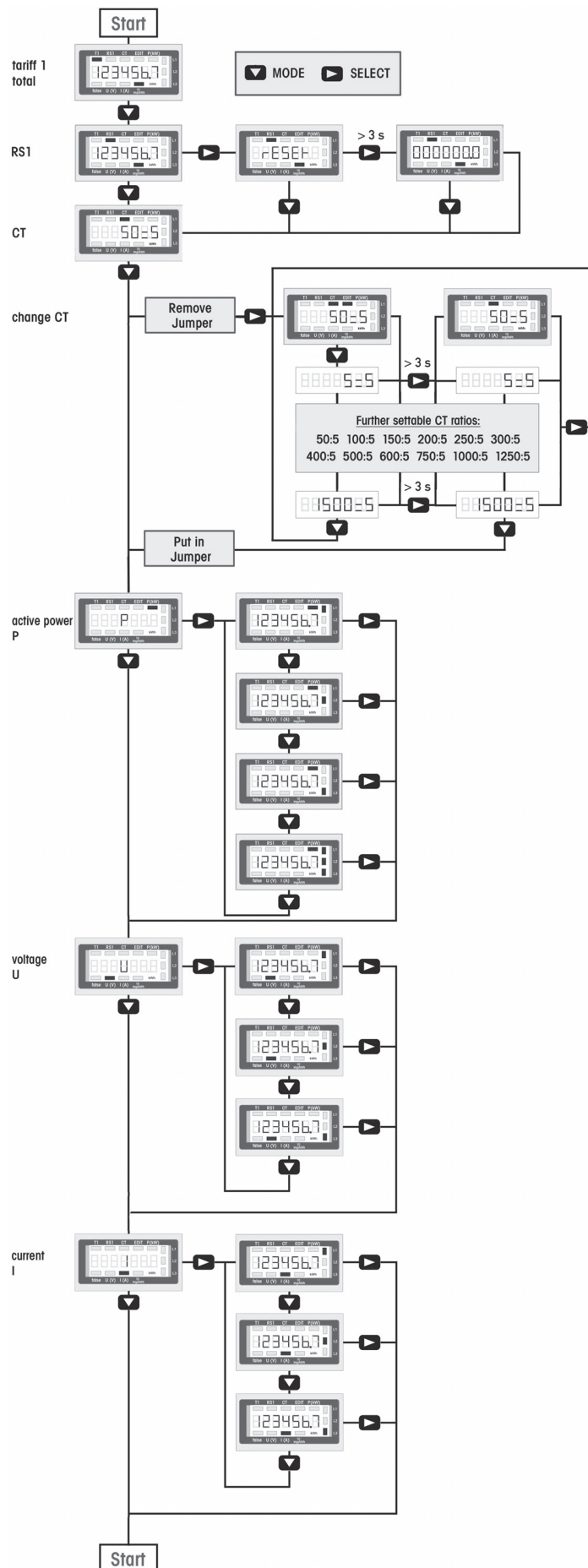
Typical connection:

4-wire-connection 3x230/400 V

Connect the current transformer terminals on the secondary part to the
phase conductors which are metered. These connections for the voltage
supply of the energy meters must be secured according to the local
installation regulations.



Menu guidance



Technical data

Rated voltage, extended range	3x230/400V, 50Hz, -20%/+15%
Reference current I_{ref} (Limiting current I_{max})	3x5(6)A
Internal consumption active power	0.5 W per path
Display	LC display 7 digits, therefrom 1 digit after the decimal point
Accuracy class $\pm 1\%$	B
Inrush current according to accuracy class B	10mA
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, 10Imp./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	FQKZ118
Product	Calibrated electronic three-phase energy meter with display and MID approval CT operated energy meter with settable CT ratio
Type designation	DSZ12WD-3x5A
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

- Annex I, essential requirements
- Annex 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 GBA12.

Eltako GmbH

D-70736 Fellbach

 +49 711 94350000

www.eltako.com