

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%.
Condensing humidity <85%

**CT operated energy meter with settable CT ratio and MID.
Maximum current 3x5A. Standby loss 0.5 watt per path only.**

Modular 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 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 5A can be connected.
The inrush current is 10mA.

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)

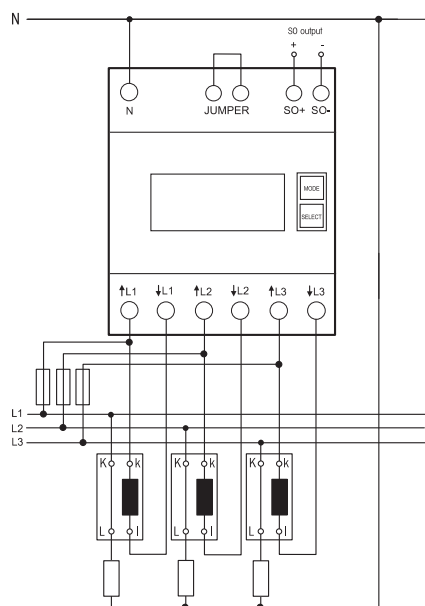
When the phase conductor is missing or the current direction is wrong 'false' and the corresponding phase conductor are indicated on the display.

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

Typical connection:

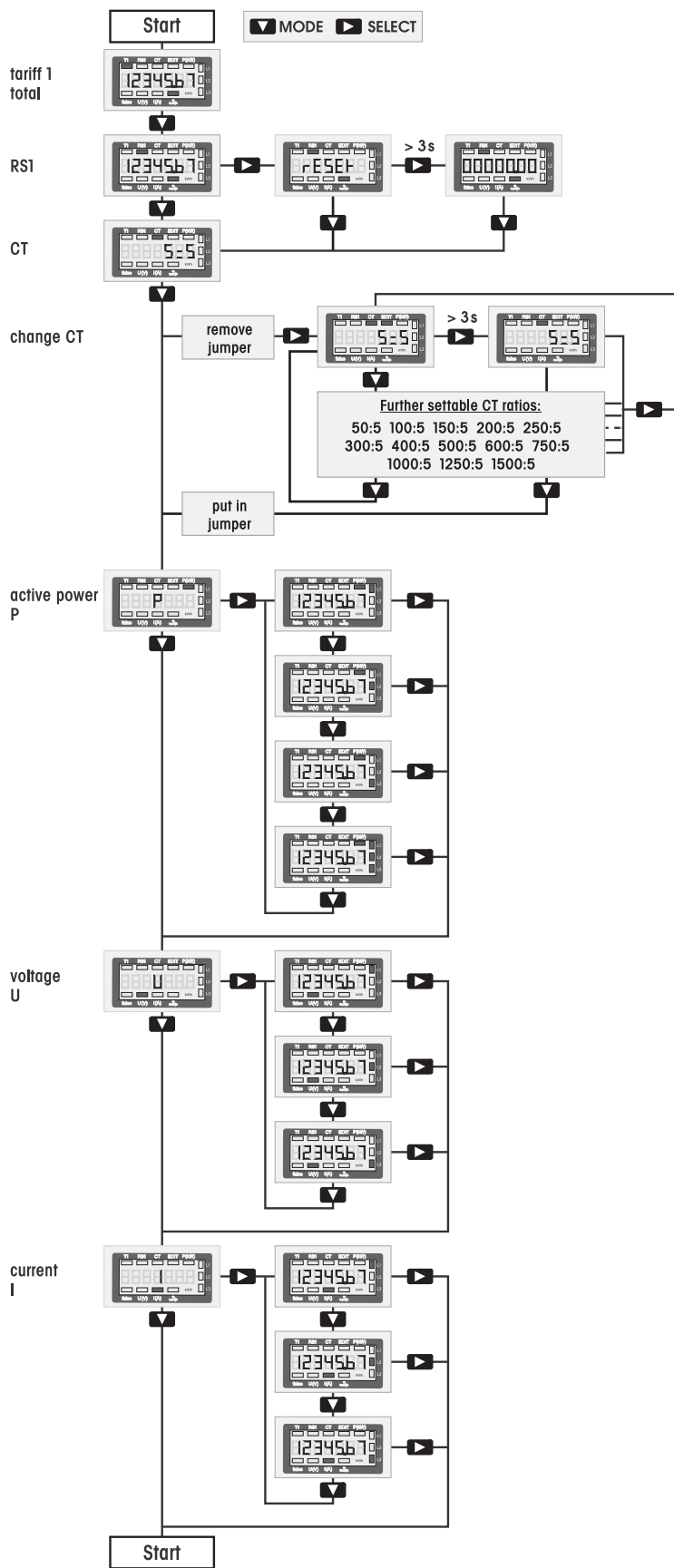
4-wire-connection 3x230/400V

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.



Technical data

Rated voltage, extended range	3x230/400V, 50Hz, -20%/+15%
Reference current I_{ref} (Limiting current I_{max})	0.05-5(6)A
Internal consumption active power	0.5W 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 SO 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 cabinets with protection class IP51
Maximum conductor cross section	N and L terminals 16mm ² , SO terminals 6mm ²
Type examination certificate	0120/SGS0314
Mechanical environmental conditions	class M1
Electromagnetic environmental conditions	class E2
Usage	Indoor



EC DECLARATION OF CONFORMITY

File name	FQKZ057
Product	Three-phase energy meter with MID approval CT operated energy meter with settable CT ratio
Type designation	DSZ12WD-3x5A
EC type	0120/SGS0314
examination certificate	

The manufacturer herewith declares, on his own responsibility that the designated products which this certificate refers to, are in accordance with the following harmonized standards or normative documents as well as with the following Directives of the European Parliament and of the council (relevant version):

EN 50470 parts 1 and 3 May 2007 (electronic meters)

as well as with the following Directives of the European Parliament and of the Council (relevant version):

- 2014/32/EU measuring instruments
- 2014/30/EU electromagnetic compatibility
- 2011/65/EU restriction of the use of certain hazardous substances (RoHS Directive)

Notified body
SGS United Kingdom Limited , Nr. 0120
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Issuer
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Place, Date
Shenzhen, 09. June 2017

signed

This declaration proves the compliance with the above-mentioned EC Directive(s) but it does not include any assurance of properties. Security advices of the provided product information have to be noticed.

ChuangRen
Technical Support:

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