

# Three-phase energy meter DSZ12WDE-3x5A with display, without approval



**CT operated energy meter with settable CT ratio.  
Maximum current 3x5A. Standby loss 0.4 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 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 0.4 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 according to the operation manual. 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)**

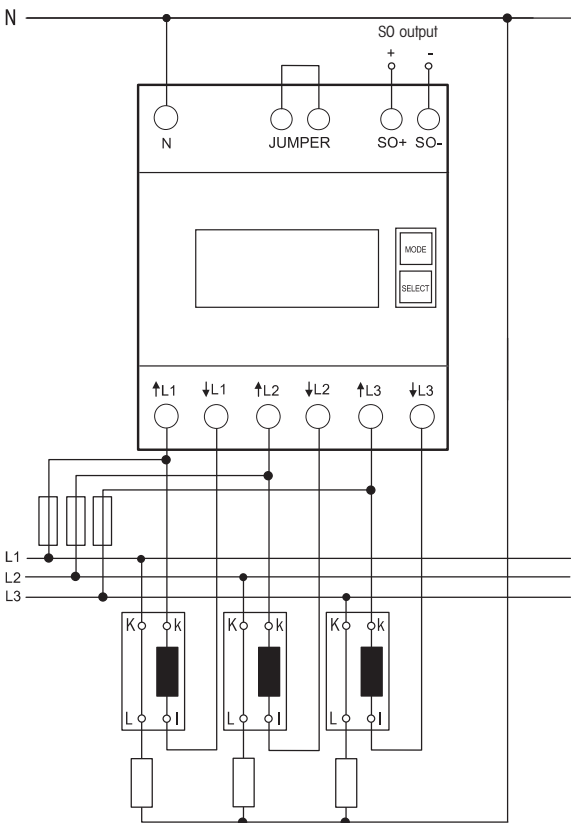
When the phase conductor is missing or the current direction is wrong 'false' and the corresponding phase conductor are indicated on the display.

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

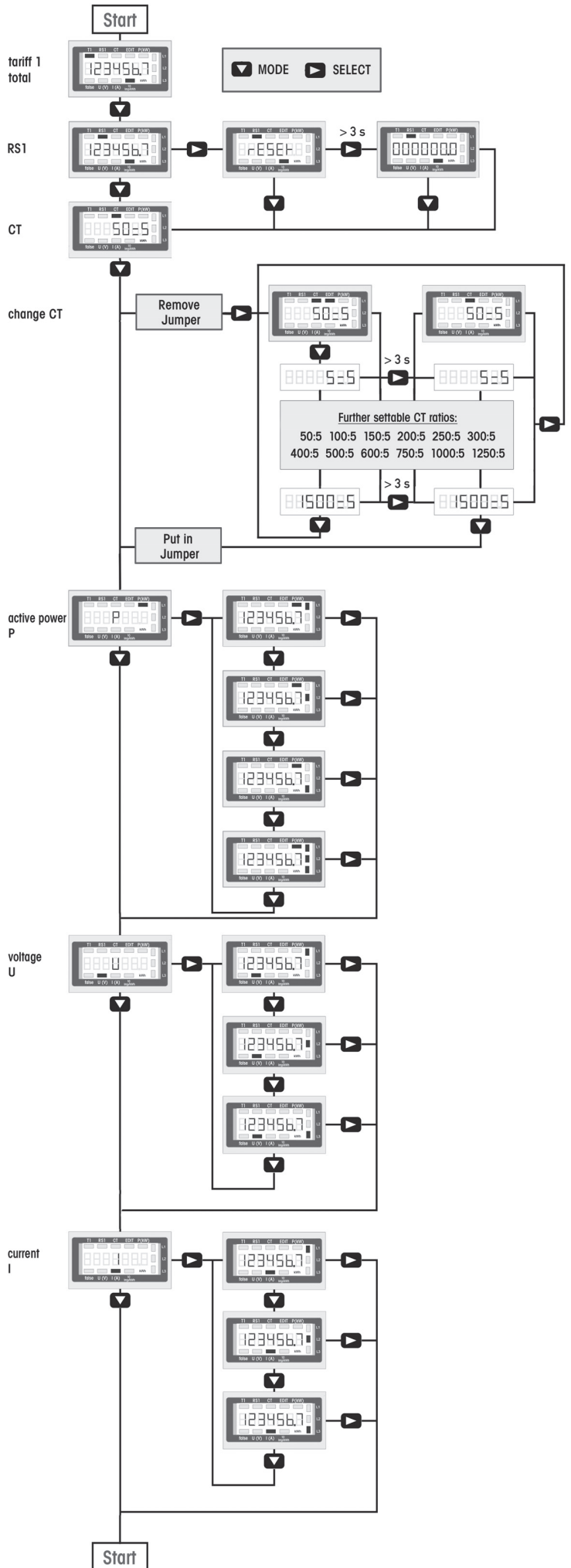
**Typical connection:**

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.



**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	0.4 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	10 mA
Operating temperature	-10/+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, 10 Imp./kWh
Terminal cover sealable	Terminal cover clap
Protection degree	IP50 for mounting in distribution cabins with protection class IP51
Maximum conductor cross section	N and L terminals 16 mm <sup>2</sup> , SO terminals 6 mm <sup>2</sup>
<b>CE</b>	EN 50470

**Important reminder!**

**This electrical equipment may only be installed by skilled electricians otherwise fire hazard or danger of electric shock exists!**