

Three-phase energy meter DSZ12E-3x80A
with display, without approval

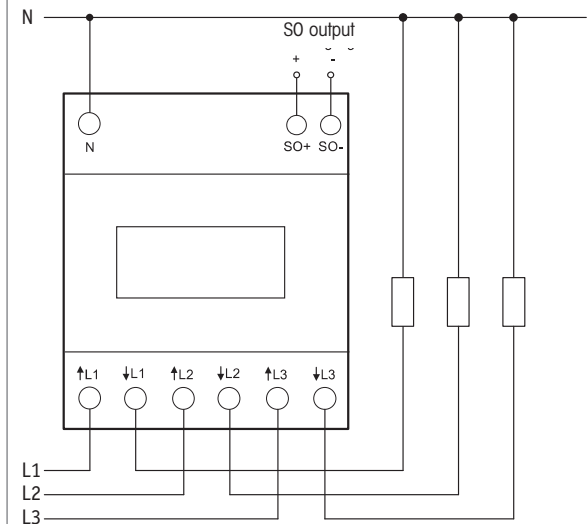
Only skilled electricians may install this electrical equipment
otherwise there is the risk of fire or electric shock!

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 3x80A. Standby loss 0.5 watt per path only.
Modulair device for DIN-EN 60715 TH35 rail mounting in distribution cabinets with IP 51 protection class.
4 modules = 70mm wide and 58mm deep.
Accuracy class B (1%). With SO interface as standard.
It measures active energy by means of the current between input and output. With backstop.
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 80A¹⁾ can be connected. The inrush current is 20mA.
The N terminal must always be connected.
The display is permanently illuminated and can only be read when the power supply is on. However, the consumption is saved to a non-volatile memory and is displayed immediately after a power failure.
Power consumption is shown by a bar flashing at a rate of 800 times per kWh.

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



Technical data	
Rated voltage, extended range	3x230/400V, 50Hz, -20%/+15%
Reference current I_{ref} (Limiting current I_{max})	3x5(80)A
Internal consumption active power	0.5 W per path
Reading	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	20 mA
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, 800Imp./kWh
Terminal cover sealable	Terminal cover clap
Protection degree	IP50 for mounting in distribution cabins with protection class IP51
Maximum conductor cross section ¹⁾	L terminals 25 mm ² , N terminal 16mm ² , SO terminals 6mm ²
Recommended tightening torque ²⁾	
L-terminals	2,0 Nm (max. 2,5Nm)
N-terminal	1,5 Nm (max. 2,0Nm)
SO-terminal	0,8 Nm (max. 1,2 Nm)
CE	EN 50470
Mechanical environmental conditions	class M1
Electromagnetic environmental conditions	class E2

¹⁾ The carrying capacity of cables and wires is defined in DIN VDE 0298-4
²⁾ The torques for screw terminals are specified in the DIN EN 60999-1.
To avoid damage to the meter, the maximum torque value for each terminal must not be exceeded!

Must be kept for later use!
We recommend the housing for operating instructions GBA12.

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