

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

CE

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 0.7-0.9 watt per path only.

Modulair device for DIN-EN 60715 TH35 rail mounting in distribution
cabinets with IP51 protection class.
4.2 modules = 76mm wide and 60mm deep.

Accuracy class 1 (1%). With SO interface as standard, 800 Imp./kWh.

This direct metering double tariff three-phase energy meter measures active
energy with always positive direction (the energy meter counts the energy
independently of the actual energy direction) by means of the currents
between input and output.

The internal power consumption is neither metered nor indicated.

1, 2 or 3 phase conductors with max. currents up to 80A can be connected.
The inrush current is 20mA.

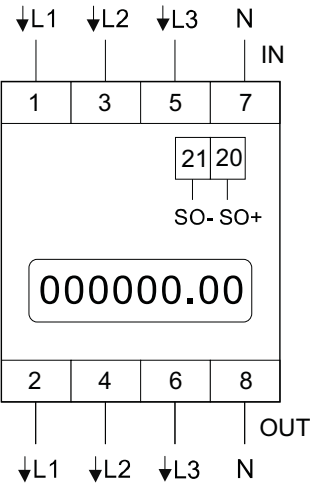
The N terminal must always be connected.

The 8-segment LC display with two decimal points has a blue backlight. In
case of a power failure, the display is blank but the readings are saved to a
non-volatile memory.

Current flow at L1, L2 and L3 is indicated by a separate red LED for each
terminal: rapid flash rate at low current; continuous light from weak to bright
at high currents.

Typical connection:

4-wire-connection 3x230/400V



Technical data

Rated voltage, extended range	3x230/400V, 50/60Hz, -20%/+15%
Reference current I_{ref} (Limiting current I_{max})	3x5 (80)A
Internal consumption active power	0.7-0.9W per path
Reading active power	LC display 8 digits, therefrom 2 digits after the decimal point
Accuracy class $\pm 1\%$	1
Inrush current according to accuracy class 1	20mA
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 90ms, 800 Imp./kWh
Terminal cover sealable	with 2 sealing caps
Protection degree	IP50 for mounting in distribution cabins with protection class IP51
Maximum conductor cross section	N and L terminals 25 mm ² , SO terminals 0,8 mm ²
CE	EN 62053-21

Must be kept for later use!

We recommend the housing for operating instructions GBA12.

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