

### Datasheet

- Three phase 100A direct fed
- MID B+D certified
- Accuracy class 0.5 / C
- Bi-directional measurement for kW and kWh
- RS485 Modbus communication
- Multi-parameter measurement
- 2 digital inputs

The SDM630-DI is an advanced multi-function three phase energy monitoring solution with optional outputs such as pulses, RS485 RTU Modbus. Equipped with configuration and display buttons for ease of navigation through the various parameters and settings. Housed for DIN rail mounting, IP51 protection and direct connection up to 100A. Certified in the UK according to EU directive 2014/32/EU. MID certificate number T 12801.



## Specification Table

Specification	
Nominal voltage(Un)	3x230/400 V ac
Voltage range	85~276V AC (Max. 276V)
Current input	0.3~10(100)A (Max. 100A )
AC voltage withstand	4KV for 1 minute
Impulse voltage withstand	6KV-1.2μs
Basic current (Ib)	10A
Max. Current (Imax)	100A
Min. Current (Imin)	0.3A
Operational current range	0.4% Ib-Imax
Over current withstand	30 Imax for 0.01s
Operational frequency range	50 or 60Hz
Power consumption per phase	≤ 2W/10VA
Display	LCD

Performance criteria	
Operating humidity	≤ 90%, no condensing
Storage humidity	≤ 95%, no condensing
Operating temperature	-40°C - +70°C
Storage temperature	-40°C - +70°C
Reference temperature	23°C± 2°C
International standard	EN IEC 62052-11:2021/A11:2022 / EN50470-3:2022
Accuracy class	Class 0.5 / Class B / Class C
Installation category	CAT III
Mechanical environment	M1
Electromagnetic environment	E2
Degree of pollution	2
Protection against penetration of dust and water	IP51 front panel, IP20 whole meter
Insulating encased meter of protective class	II
Electrostatic discharges	8kV contact / 15kV air gap
Electromagnetic HF fields	IEC 61000-4-3
Electrical fast transients	4kV

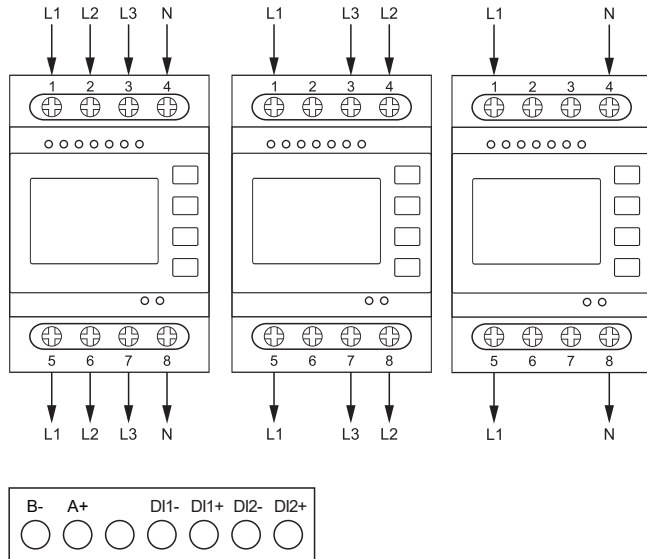
Accuracy	
Voltage, Current	±0.5%
Frequency	±0.2%
Power factor	±0.01
Active power , Apparent power	±1%
Reactive power	±1%
Reactive energy(Varh)	Class 2 IEC 62053-23
Active energy (Wh)	Class 0.5 IEC62053-21 / Class C EN50470-3:2022

Modbus	
Bus type	RS485(semi-duplex)
Protocol	Modbus RTU
Baud rate	2400/4800/9600/19200/38400/115200bps
Address range	1-247
Max. Bus loading	64pcs
Communication distance	1000M
Parity	EVEN/ODD/NONE
Data bit	8
Stop bit	1

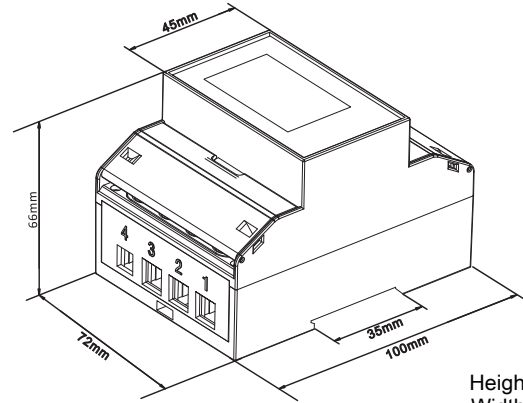
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## Wiring Configuration



## Dimension Drawing



Height 100mm  
Width 72mm  
Depth 66mm

## Ordering Options

Meter Type	Description of Meter
SDM630-DI	3PH-4W, 3PH-3W, 1PH-2W, 3x230(400)V, 0.3~10(100)A, 50/60Hz, backlighted LCD display, RS485 Modbus RTU, 2 digital inputs. Measures kWh, kVarh, W, Var, VA, V, A, PF, THD, Hz, Max.DMD, Imp_kWh, Exp_kWh etc.

## Conformity References

**Measurement category:** IEC 61010-1 CAT III

**Current input:** Direct connect

**Over-voltage category:** CAT III

**Dielectric withstand:** IEC 61010-1 double insulated, IEC 62052-31:2015

**Protective class:** II

**EMC:** EN 61326-1:2021 & EN 61326-2-3:2021, EN IEC 62052-11:2021/A11:2022

**Low Voltage Directive:** EN 61010-1:2010+A1:2019 & EN IEC 61010-2-030:2021+A11:2021, IEC 62052-31:2015

**MID Std:** EN 50470-3:2022 and IEC / EN IEC 62052-11:2021/A11:2022, IEC 62052-31:2015