DIN Rail Mounted / Three Phase/ (100A) SDM630 Wifi

Datasheet



- **Multi-measurement: kWh,W, V, A, PF, Hz, dmd,etc.**
- **LCD with backlit**
- **2 Pulse Output + WIFI communication**
- **Bi-directional Measurement**
- **Max. 100A Direct Load**
- **4 Module 72mm Width**
- **MID approved**

The SDM630 Wifi is an advanced multifunction three-phase energy monitoring solution with Wifi communication. 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. Selectable measurement modes using our free configurations software for kWh display. An Energy app is available to view real time measurements and usage over time in graphs. Total kWh (Import + Export), Import kWh and Net kWh (Export - Import) Certified in the UK according to EU Directive 2014/32/EU. MID Certificate number 0120 / SGS0151.

Specification table

Specification	
Nominal voltage(Un)	3x230/400 V ac
Operational voltage	80%~120% of Un
Insulation capabilities	
- AC voltage withstand	4KV for 1 minute
- Impulse voltage withstand	6KV-1.2μS
Basic current (Ib)	10A
Maximum rated current (Imax)	100A as per page 11
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%
Storage humidity	≤ 95%
Operating temperature	-25°C - +55°C
Storage temperature	-40°C - +70°C
Reference temperature	23°C± 2°C
International standard	IEC 62053-21 / EN50470-1/3
Accuracy class	Class1/Class B
Installation category	CAT III
Mechanical environment	M1
Electromagnetic environment	E2
Degree of pollution	2
Protection against penetration of dust and water	IP51(indoor)
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% of mid-frequency
Power factor	1% of unity (0.01)
Active power , Apparent power	±1% of range maximum
Reactive power	±1% of range maximum
Reactive energy(Varh)	Class 2
Active energy (Wh)	Class 1

Pulse output	
Pulse outputs	2
Pulse output type	Passive
Pulse output 1	Configurable
Pulse width	200/100(default)/60ms
Pulse output 2	400imp/kWh

Wifi communication	
Wi-Fi support	2.4Ghz b/g/n
Wi-Fi data freq.	Every second

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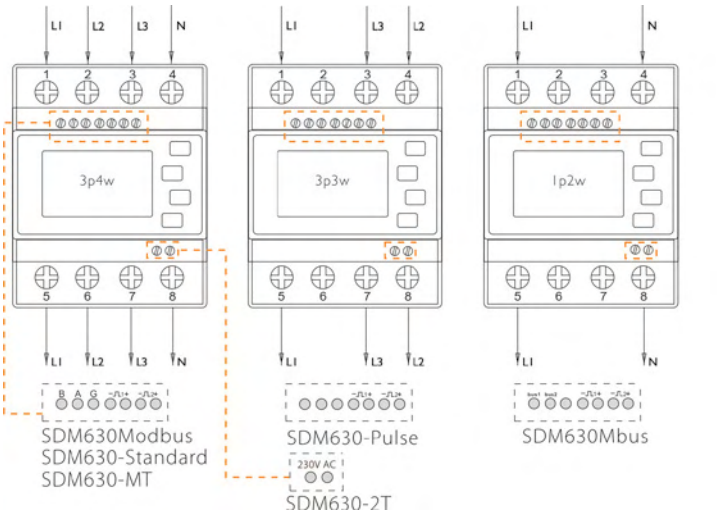
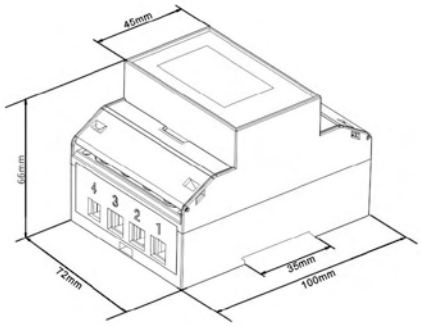
Wiring Configuration



Dimension Drawing



Height	100mm
Width	72mm
Depth	66mm

Conformity References

Electromagnetic Compatibility: EN61326-1:2013 & EN61326-2-3:2013

Low Voltage Directive: EN61010-1-2010 & EN61010-2-30-2010

MID DIRECTIVE: 2014/32/EU

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