

Datasheet

- Three phase 100A direct fed
- Accuracy class 1
- Bi-directional measurement for kW and kWh
- Built in Modbus-TCP output
- Multi-parameter measurement
- Plug-in solution

The SDM630-TCP is an advanced multi-function three phase energy monitoring solution with a Ethernet communication port. Equipped with configuration and display buttons for ease of navigation through the various parameters and settings. The meter supports max. 100A direct connection, saving the cost and avoiding the trouble to connect external CTs, giving the unit a cost-effective and easy operation.



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
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	-25°C - +55°C / -40°C - + 70°C(optional)
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	±2% of range maximum
Reactive energy(Varh)	Class 2
Active energy (Wh)	Class 0.5S / Class 1

Ethernet Communication	
Interface Standard and Protocol	Ethernet Modbus TCP
Communication Address	1~247
IP Address Assignment	DHCP
	Factory default address: 192.168.1.200
Data Type	Floating Point
Transmission Speed	> 100MB
Response Time	< 100mS

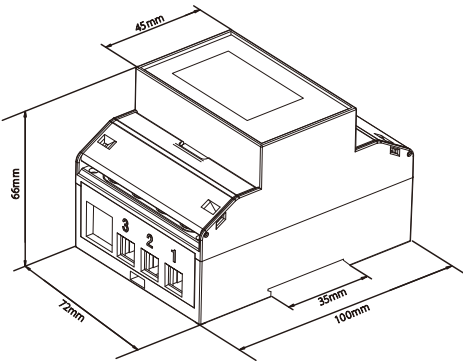
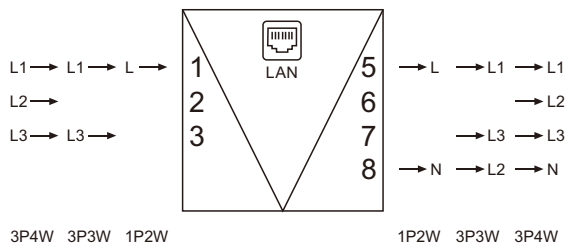
For more information on these products, please contact our sales team on 86 0573 83698881 or email sales@eastrongroup.com

www.eastrongroup.com

Datasheet

Wiring Configuration

Dimension Drawing



Height 100mm
Width 72mm
Depth 66mm

Ordering Options

Meter Type	Description of Meter
SDM630-TCP	3PH-4W, 3PH-3W, 1PH-2W, 3x230(400)V, 0.5~10(100)A, 50/60Hz, backlighted LCD display, Mosbus-TCP output, Measures kWh, kVarh, W, Var, VA, V, A, PF, THD, Hz, Max.DMD, Imp_kWh, Exp_kWh etc.

Conformity References

Electromagnetic Compatibility: EN61326-1:2013 & EN61326-2-3:2013
Low Voltage Directive: EN 61010_1:2010+A1:2019 & EN 61010-2-30:2010