KSTAR
Powering the Future

SDM630MCT40mA Smart Meter

DIN Rail Energy Meter for Single and Three Phase Electrical Systems

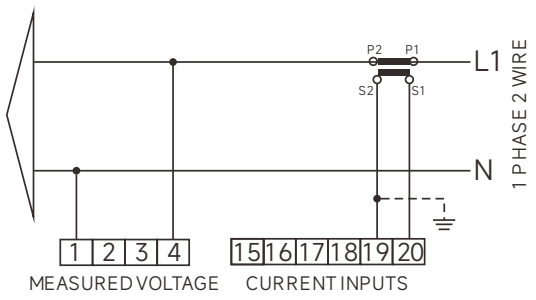
- Measures kWh kVArh, kW, kVAr, kVA, P, F, PF, Hz, dmd, V, A, THD,etc.
- Bi-directional measurement IMP & EXP
- Two pulse outputs
- RS-485 Modbus
- Din rail mounting 35mm
- 40 mA CT connection
- Better than Class 1 / B accuracy



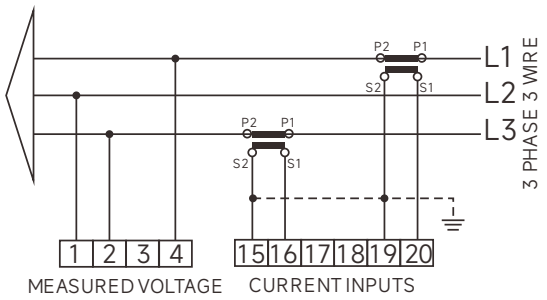
MODEL	SDM630MCT40mA
Measurement Accuracy	
Type of Measurement	RMS including harmonics on three phase AC system (3P,3P+N)
Power	0.5% of range maximum
Active Energy	IEC 62053 - 22 Class 0.5S, IEC 62053 - 21 Class 1.0
Reactive Energy	IEC 62053-23 Class 2
Frequency	0.2% of mid-frequency
Current	0.5% of range maximum
Voltage	0.5% of range maximum
Power Factor	1% of unity (0.01)
Input	
CT Secondary	40 mA
CT Primary	1 ~ 9999 A
Rated Voltage (Un)	380 / 400 V a.c.
Operating Voltage Range	173 to 480 V a.c. (L-L)
Communications	
Communication Protocol	Modbus RTU
Communication Address	1 ~ 247
Transmission Distance	1000 m Maximum
Transmission Speed	1200 bps ~ 38400 bps
Parity	None (default), Odd, Even
Stop Bits	1
Response Time	< 100 ms

* SDM630MCT40mA smart meter is recommended to be used along with residential string inverters and ESS hybrid inverters.
** It has included three 120A/40mA Current Transformers. For system larger than 80 kW, users need to purchase larger capacity CT that meets the following requirements:
1. The selected CT's primary rating should be larger than the maximum current passing through the system's AC busbar.
2. Maximum Current = system capacity / 230 / 3
*** Please consult Kstar for more details.

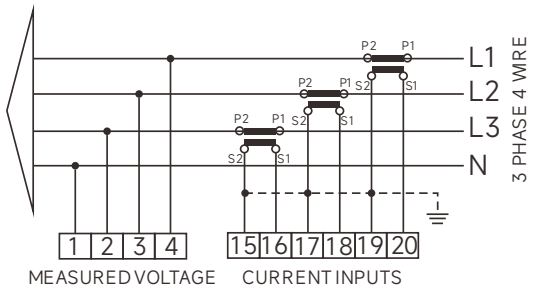
1P2W 1CT



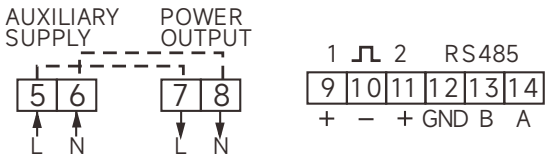
3P3W 2CT



3P4W 3CT



Other terminals



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