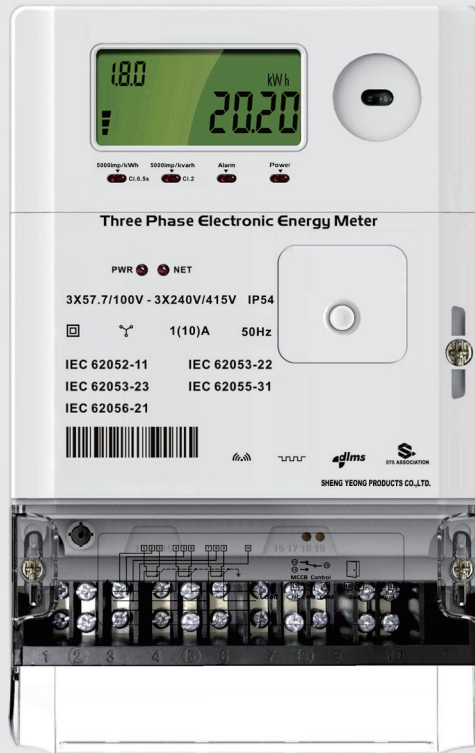




+ CERTIFICATION
STS 2.0, DLMS/COSEM

+ APPLICATION
**CONFIGURABLE
THREE PHASE FOUR WIRE
THREE PHASE THREE WIRE**

+ COMMUNICATION
**OPTICAL, RS485
GPRS/G3-PLC HYBRID**

10. SY31CTR SMART TRANSFORMER OPERATED MCT

SY31CTR^{MCT} is a variant of SY31CTTM for big customer measurement. It is a transformer operated meter which accommodates both prepayment and credit mode application. It provides an optimal performance in all industrial and commercial application areas with its featured modular architecture, exceptional feature set and high interoperability. Its enhanced features derives from SY31CTTM offer the maximum flexibility through unique communication modularity, high interoperability and a comprehensive functionality for prepayment and credit modes.



SY31CTR

Description	Specification
Reference voltage (Un)	3x230/400V, 3x57.5/110V
Operation voltage	80% Un~120% Un
Limit of Voltage	60% Un~130% Un
Maximum switching voltage	>418V
Maximum withstand voltage	500V, 48 hours, no damages or accuracy deviation after restoration
Short-time withstand voltage	600V, 1 minute, no damages or accuracy deviation after restoration
Basic current (Ib)	1A
Maximum current (Imax)	10A
CT ratio	100A, 200A, 300A, 500A, 800A
Short-circuit current	3,000A, <3ms, no damage or accuracy deviation after restoration
Frequency	50Hz
Frequency rage	47.5~52.5Hz
Accuracy class	Cl.0.5 for active energy, Cl.2 for reactive energy. ** Can be Customized as Cl.0.2s**
Starting current	0.1%Ib (5mA)
Pulse constant	10000imp/kWh, 10000imp/kVarh
Utilization class	UC2
Contact mechanical life	>3000 cycles @ Maximum power, PF=1
Consumption	Specification
Voltage circuit	<1W, 2.5VA @230V
Current circuit	<0.1VA @ Base current (Ib)
Environment	Specification
Operating Temperature	-25°C~70°C
Storage Temperature	40°C~90°C
Humidity	average <=95%, maximum <=100%, non-condensing
Altitude	<=3000m
EMC	Specification
Electrostatic discharge (ESD)	Contact discharge: 8kV Air discharge: 15kV, IEC 61000 4-2
Fast transient burst	4 KV/100 KHZ, IEC 61000 4-4
Immunity to HF Fields	80MHz-2GHz@10V/m with load; 80MHz-2GHz@30V/m with no load - accuracy not affected by magnetic fields from all sides -front, sides, top and bottom of the meter
Conducted disturbances by RF	150kHz - 80MHz 10V/m, IEC 61000 4-6
Radio Interference	CISPR 22, IEC 61000 4-2,3,4,6
Surge Immunity	30KA/KV , 4/10S against lightening, IEC 61000 4-5

Technical datasheet