

DT(S)S238-7 M three phase din rail type watt hour meter (D3705)



The meter is used in three phase four wire/three phase three wire /two phase three wire power grid. The meter is designed to measure AC active energy. All of its functions comply with the relative technical requirement for class 1 three phase watt hour meter in IEC62053-21. It is a long life meter with the advantage of high stability, high over load capability, low power loss and small volume.

Basic Function

- ★LCD display 6+2, touch button for LCD display step by step
- ★Bi-directional total active energy measurement, reverse active energy measure in the total active energy
- ★The meter also display real voltage, real current, real power, real power factor, real frequency, import active energy, export active energy, resettable interval energy
- ★Reset energy function(the reset energy kWh display is dependent with the total energy display, this reset will not affect the total energy)
- ★Pulse LED indicates working of meter, Pulse output with optical coupling isolation
- ★Loss phase LED indication, Reverse connection LED indication
- ★RS485 communication port, MODBUS-RTU protocol
- ★Energy data can store in memory chip more than 15 years after power off
- ★35mm din rail installation

Technical Data

Noting : other voltage , current are also available . Other function also can be special design as customer requirement

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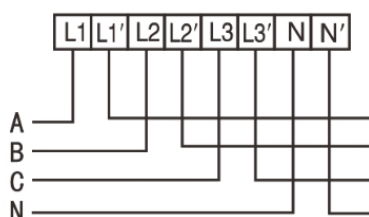
Rate voltage	DTS238-7 RS485 three phase four wire 3x127/220V, 3x120/208V, 3x220/380V, 3x230/400V, 3x240/415V
	DSS238-7 RS485 three phase three wire(two phase three wire) 2x120/208V, 2x127/220, 3x220V, 3x380V, 3x400V ,
Working voltage range	0.8~1.2Un
Rate Current	5A/CT, 1.5(6)A, 5(30)A, 5(60)A, 10(100)A, or other as required
Frequency	50Hz or 60Hz
Connection mode	CT type or Direct type
Display	LCD
Accuracy class	1.0
Power consumption	<0.5W/5VA /each phase
Start current	0.004Ib
AC voltage withstand	4000V/25mA for 60 sec
Impulse Voltage	6kV 1.2μs waveform
IP grade	IP20
Constant	400~6400 imp/kWh
Pulse output	Passive pulse, pulse width is 80 ± 5 ms
Communication port	RS485 port, baud rate 1200~9600 bps, default is 9600bps, address 1~247, None parity, stop bits 1, data bits 8.
Executive standard	DIN 43880, IEC62053-21, IEC62052-11
Work temperature	-30°C~70°C
Outline dimension LXMxH	125x88x73mm
Weight	Approx 0.7kg

Environment

Operating temperature	-25°C~55°C
Storage temperature	-40°C~80°C
Reference temperature	23°C ± 2°C
Relative humidity	0 to 95%, non-condensing
Altitude	Up to 2500m
Warm up time	10s
Mechanical Environment	M1
Electromagnetic Environment	E2
Degree of pollution	2

Wire connection

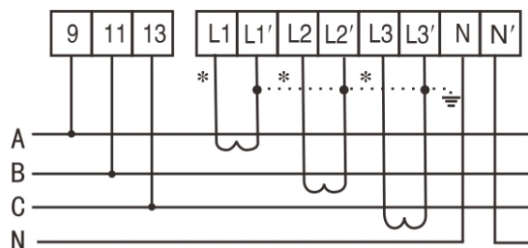
(1) three phase four wire direct connection



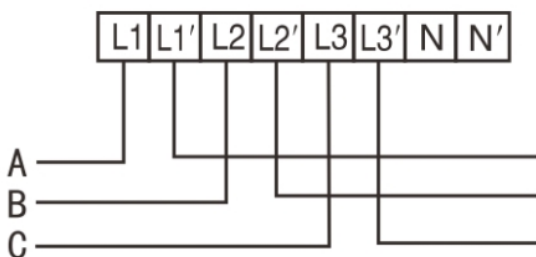
(2) three phase four wire through current transformer connection

Noting : other voltage , current are also available . Other function also can be special design as customer requirement

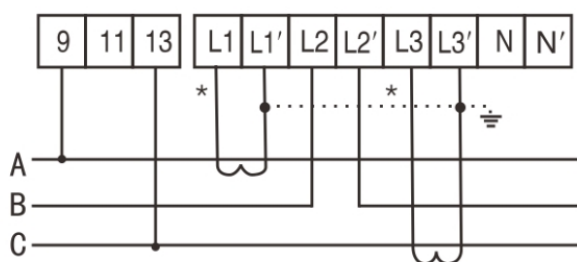
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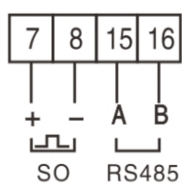
(3) three phase three wire direct connection



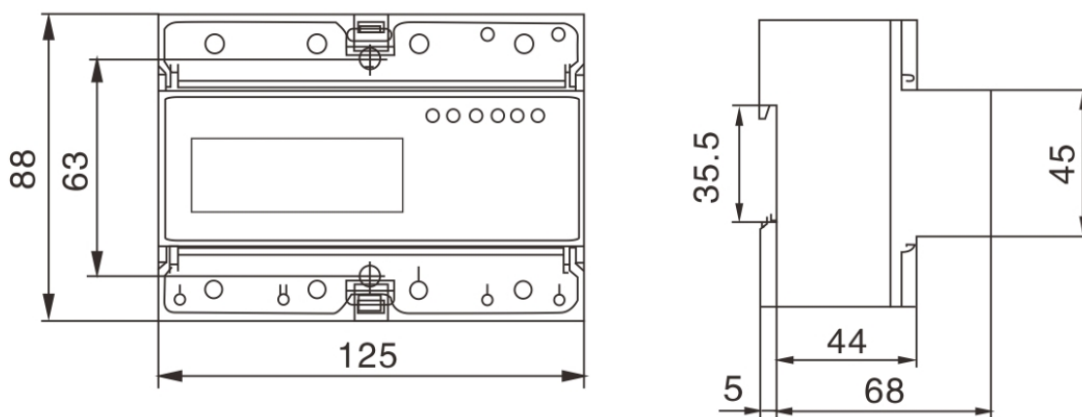
(4) three phase three wire through current transformer connection



Terminal function



Outline dimension



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