

DDM100TC

THREE PHASE DIN RAIL ENERGY METER

INTRODUCTION

Modular DIN Rail Products offer a wide range of functions to be integrated in electrical installations with significant benefits for the user, we have complete range of DIN-mounted electricity Meters together with communication options. It is designed for high level performance and are safe and fast to install.

The meters are available in several configurations to suite different applications, with the increasing energy cost, measuring of the electricity consumption is getting more and more important, If you can identify where you have used you are one step closer to reducing your energy cost, Now start to make energy usage smarter.

HIGHLIGHTS: Three phase three wire or Three phase four wire is available

FUNCTIONS

Solar energy meter which has two power source, AC grid power as forward energy and solar power generate as Reverse energy, Meter calculate both energy consumption

Calculation of total energy : import and export

Import= user take power from the grid

Export= user send the power back to grid

Power also have import and export

PS: In this case the solar energy has to be converter to AC power then wire into Meter

Directly DC power into Meter will cause damage

- ◆ Meter case: ABS + PC anti flaming, environment friendly material
- ◆ Dimension: 125mm width, 88mm length, 68mm height
- ◆ Display: LCD display 6+1 digits
- ◆ Standard configuration pulse output passive (polarity)
- ◆ Forward active energy and reverse active energy measurement
- ◆ Directly connect operation, Maximum 100A or through current transformer
- ◆ Approved by international standard IEC62052-11, IEC62053-21
- ◆ Communicate RS485 Modbus RTU protocol, baud rate: 1200~9600bps
- ◆ Voltage (V); Current (A); Frequency (Hz); Power (KW); Power factor (COS)



TECHNICAL PARAMETERS

Model NO.	DDM100TCR
Accuracy	Active 1.0;
Installation	35mm Din Rail Mounted
Rated voltage	3X220/380V, 3X230/400V, 3X240/415V
voltage range	0.8 ~ 1.2Un
Rated current	5(30)A, 10(40)A, 15(60)A, 20(80)A, 30(100)A
Operation current range	0.05Ib~ I _{max}
Starting current	0.4%Ib
Rated frequency	50Hz or 60 Hz
Power consumption	2W / 10VA per phase
Impulse constant	400imp/kWh, 320imp/kWh
Relative humidity	≤ 85%
Operation temperature	-10°C ~ +60°C
Insulation capabilities	AC voltage withstand 2kV for 1 minute Impulse voltage withstand 4kV - 1.2/50μs waveform