

# 4 MODULAR 3F-ESH-4ML

## THREE PHASE FOUR WIRE 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.

### FUNCTIONS

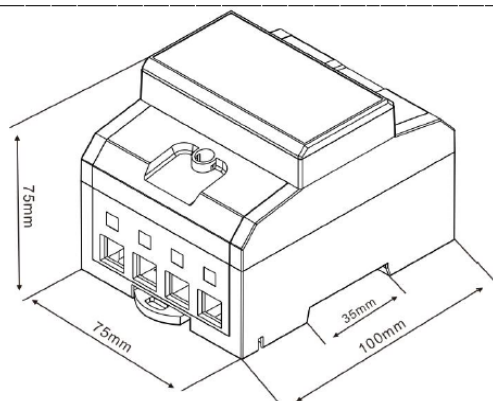
- ◆ Meter case: ABS + PC anti flaming, environment friendly material
- ◆ Dimension: 75mm width, 100mm length, 75mm height
- ◆ Display: LCD display 6+1 digits
- ◆ Front panel four LEDs, ABC for voltage induction, and impulse
- ◆ Standard configuration pulse output passive ( polarity )
- ◆ Forward active energy and reverse active energy measurement
- ◆ Directly connect Maximum Current 100A
- ◆ Approved by international standard IEC62052-11, IEC62053-21
- **OPTIONAL FUNCTION**
  1. Communicate RS485 Modbus RTU protocol, baud rate: 1200~9600bps
  2. Voltage (V); Current (A); Frequency ( Hz ); Power (KW); Power factor (COS)
  3. Reactive power(kVar), Reactive Energy(kVarh)
  4. LCD may select back light



### TECHNICAL PARAMETERS

Model NO.	3F-ESH-4ML
Accuracy	Class 1
Installation	35mm Din Rail Mounted
Rated voltage ( 3P4W )	3x110/220V, 3x230/400V
Rated voltage ( 3P3W )	3x230V, 3x380V
voltage range	0.8 ~ 1.2Un
Rated current	1.5(6)A, 10(60)A, 10(80)A, 10(100)A
Operation current range	0.05Ib~ I <sub>max</sub>
Starting current	0.4%Ib
Rated frequency	50 / 60Hz
Power consumption	1W / 8VA per phase
Impulse constant	400imp/kWh
Relative humidity	≤ 85%
Operation temperature	-20°C ~ +65°C
Insulation capabilities	AC voltage withstand 4kV for 1 minute Impulse voltage withstand 6kV - 1.2/50μs waveform

### DIMENSION



### WIRING DIAGRAM

