MID XMC3F

6A three-phase energy meter with RS485 Modbus RTU output

Power supply	
Self powered from tension lines	
Tension range	184 to 288 VL-N
Consumption (per phase)	3,5 VA - 1 W
Frequency	50/60 Hz
Tension	
Range (Modbus integrated communication)	3x230/400V to 3x240/415V 50/60Hz 4 wires
Current	
Maximum current Imax	6 A
RS485 Modbus communication	
Door	RS485
Protocol	Modbus RTU
Communication speed	300 to 57600 bps
Energy meters	
Communication speed	300 to 38400 bps
Unit load	1
Accuracy	
Class 1 active energy	as per IEC/EN 62053-21
Class 2 reactive energy	as per IEC/EN 62053-23
Class B active energy	as per EN 50470-3
SO output	
Passive optoisolated	
Maximum values	27 VCC - 27 mA
Pulse's duration	50 ±2ms ON time
Input rate	
Optoisolated active	
Maximum tension	276 VCA-CC
Metrologic LED	
Integration constant	1000 imp/kWh
Environmental conditions	
Working temperature range	-25°C to +55°C
Storage temperature	-25°C to +75°C
Relative humidity	max 80% with no moist
Degree of protection	IP51 front - IP20 clamps
General features	
Dimensions (WxHxD)	72x90x64 mm

- RS485 Modbus RTU integrated communication
- Suitable for 1 or 5A CT
- CT values programmable
- Bidirectional measurement on 4 quadrants for all types of energy and power
- Suitable for 4wires network with balanced or unbalanced load
- Energy pulses output
- LCD display
- Fully complying with EN 50470-1 EN 50470-3 regulation

Advantages

- Up to 30 instant measured parametres can be displayed, complete set of energy metres, total and partial metres included. Partial meters can be started, stopped or reset
- Suitable for CTs with both 1 and 5A secondary. CTs value programmable in field (1...10000)
- The meter indicates phases' sequencies and has a diagnostic function to report polarity and connectivity problems.

General features

4 DIN, compact energy meter for measuring energy in industrial and civil environments, RS485 Modbus RTU communication included. Apart from energy, the meter, measures other main electrical parameters and makes them available via integrated COM door. Visualise, on the LCD display, totalizers and instant power. The COM door allows the management of a meter connected to a remote station. These data will be transmitted on the RS485 line. The meter is designed complying with EN 50470-1 EN 50470-3 regulation. Active energy's precision refers to the IEC/EN 62053-21, class1 regulation. Reactive energy's precision refers to the IEC/EN 62053-23, class 2 regulation. The wide LCD backlit display and clear symbols, ensure an easy reading of status and indicated values. On the front panel there's the metrological LED. The clamps cover can be sealed to avoid any tempering.