

MID XMC34F

MID three-phase meter



ISTRUZIONE PER LA PROGRAMMAZIONE

Once mounted, the meter must be configured (current transformer ratio, pulse output, RS485 communication, etc.)

Once programmed, the meter must be sealed (see drawing D1).

After sealing, only the Page key will be accessible, which could be used to scroll the display pages and for possible resetting (see chapter DISPLAY).

PROGRAMMABLE PARAMETERS

EXTERNAL CURRENT TRANSFORMER RATIO

Ct = current transformer primary/secondary ratio (for instance 800/5A CT=160)

Vt = voltage transformer primary/secondary ratio (for instance 600/100V VT=6)

Ct = selectable in the range 1...9.999

Vt = selectable in the range 1,0...500,0

Max CTxVt = 1.000.000

AVERAGE POWER

Time: time average for the power

Selectable values: 5 - 8 - 10 - 15 - 20 - 30 - 60 minutes

HUOR METER

t.run: counting start

Selectable values: t.run U123 (voltage) - t.run P (power)

t.run U123 (voltage): count start in the presence of one of the three line voltages (L1-L2-L3)

t.run P (power): count start of the power currents > 10mA

RS485 COMMUNICATION

Addr: address

Selectable values: 1...255

Baud: baud rate

Selectable in the range: 4800 - 9600 - 19200 bit/second

Par: parity bit

Selectable values: none - even - odd

PULSE ENERGY OUTPUT

PLSU: pulse weight

Selectable values: 1pulse = 0,01 - 0,1 - 1 - 10 - 100kWh

PLSd: width of the pulse

Selectable in the range: 50 - 100 - 200 - 300ms

TECHNICAL FEATURES

INPUT

3-phase line, 3 wires (S.1000/359) or 4 wires (S.1000/344)

Reference voltage, Un: 3x100...3x480V - 3x57,7/100...3x278/480V

Voltage circuit consumption: < 1VA (for each phase)

Reference frequency: 50Hz

Admitted variation: 47...63Hz

Basic current, In: 5A

Max. current, Imax: 7A

Current circuit consumption: < 0,5VA (for each phase)

EXTRA SUPPLY VOLTAGE

Rated value Uaux a.c.: 230V (single-phase, phase-neutral)

Admitted variation: 0,85...1,15Uaux

Rated frequency: 50Hz

Working frequency: 47...63Hz

Rated burden: < 5VA - 2,5W

INSULATION (EN50470)

Installation category: III

Degree of pollution: 2

ELECTROMAGNETIC COMPATIBILITY

Emission and immunity tests according to EN50470

ENVIROMENTAL CONDITIONS

Reference temperature: 23°C ± 2°C

Specified working range: -25...55°C

Limit range for storage and transport: - 40...70°C

Relative humidity: 95% no condensing (EN50472-1)

Degree of protection (EN60529): IP51 front frame, IP20 terminals (IP51 moun-ting the KWH-meter on a IP51 switchboard)

Max. dissipated power¹: < 4W

¹ For the thermal dimensioning of the switchboards

OUTPUTS

• IMPULSI ENERGIA ATTIVA

Optorelay with potential-free SPST-NO contact Contact range: 110V a.c./d.c. - 50mA - 20Q

• CRS485 COMMUNICATION

Galvanically insulated from the measuring input Transmitted data: all the displayed measurements

Standard: RS485 - 3 wires

Transmission: serial asynchronous

Protocol: JBUS/MODBUS compatible

Response time for query: < 200ms

Max. number of devices which can be network-connected: 32 (up to 255 with RS485 repeater)

Highest distance from the supervisor: 1200m

GENERAL DESCRIPTION

MOUNTING INSTRUCTIONS

Mounting of this equipment must be carried out just by skilled personnel.

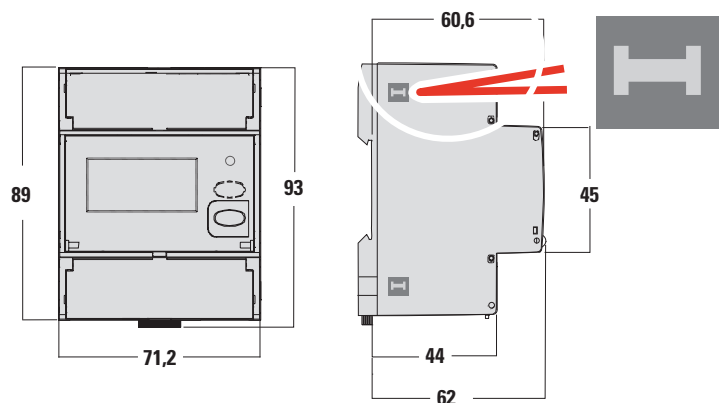
Before mounting, please make sure that the data on the label (measuring voltage, measu-ring current, extra supply voltage, frequency) correspond to the network on which the meter must be connected.

The meter is designed for connection on 3-phase, 3 or 4 wire line. In the wiring scrupu-ulously respect the wiring diagram; an error in connection unavoid- ably leads to wrong measurements or damages to the meter.

This equipment doesn't need any maintenance. In case of damage to the equipment or malfunctioning, please contact the manufacturer.

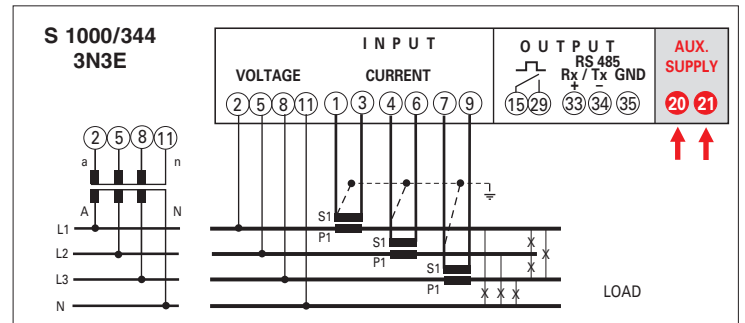
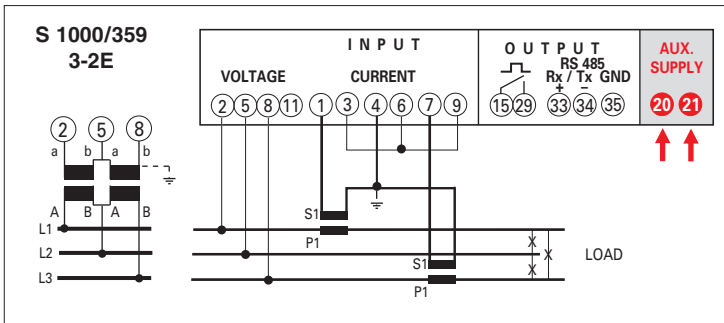
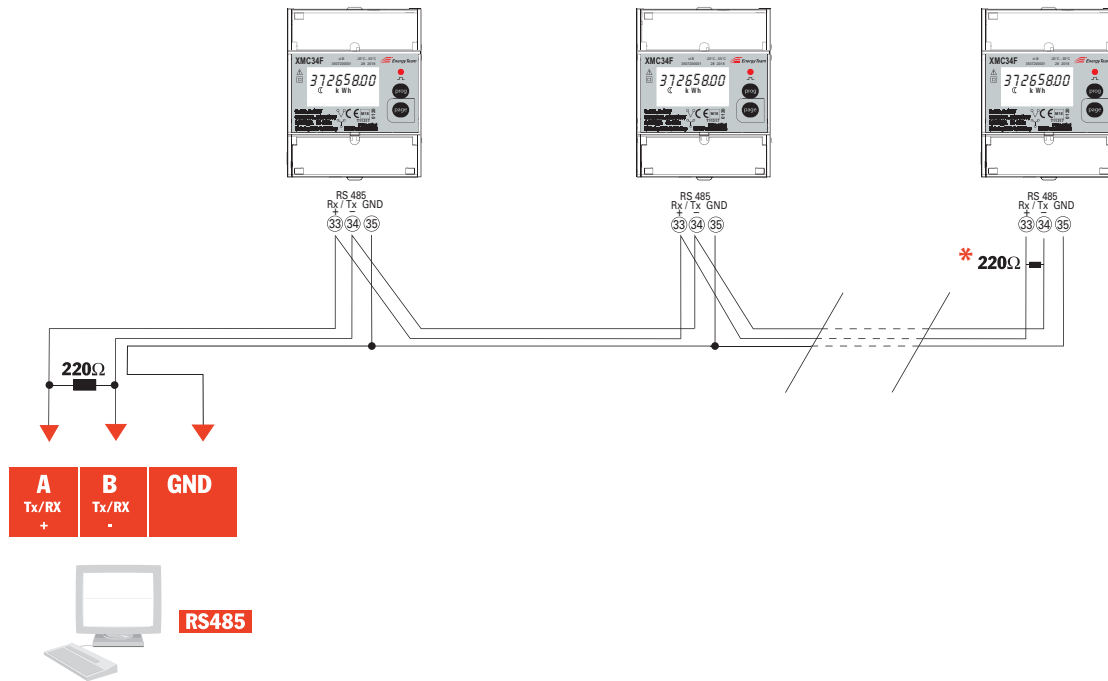
No-one is entitled to carry out repairs on the meter; any tampering will lead to forfeiture of the guarantee as well as the validity of the certification.

Housing sealing mark

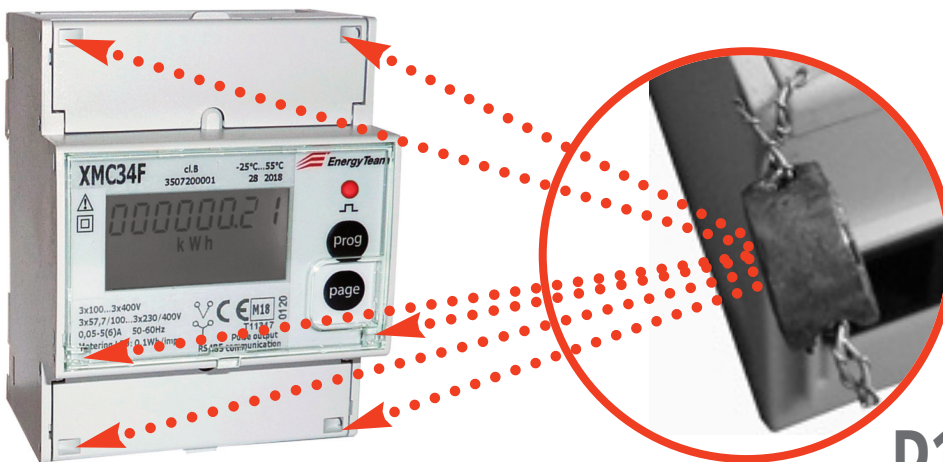


MID XMC34F

LAST NETWORK XMC34F



HOUSING SEALING MARK



D1 Sealing positions