

MID XMC34F

MID three-phase meter

TECHNICAL FEATURES

INPUT

3-phase line, 3 wires (S.1000/359) or 4 wires (S.1000/344)
 Reference voltage, U_n : 3x100...3x480V -
 3x57,7/100...3x278/480V Voltage circuit consumption: $\leq 1VA$
 (for each phase)
 Reference frequency: 50Hz
 Admitted variation: 47...63Hz
 Basic current, I_n : 5A
 Max. current, I_{max} : 7A
 Current circuit consumption: $\leq 0,5VA$ (for each phase)

EXTRA SUPPLY VOLTAGE

Rated value U_{aux} a.c.: 230V (single-phase, phase-neutral) Admitted variation: 0,85...1,15 U_{aux}
 Rated frequency: 50Hz
 Working frequency: 47...63Hz
 Rated burden: $\leq 5VA - 2,5W$

INSULATION (EN50470)

Installation category: III
 Degree of pollution: 2

ELECTROMAGNETIC COMPATIBILITY

Emission and immunity tests according to EN50470

ENVIRONMENTAL CONDITIONS

Reference temperature: 23°C \pm 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 mounting the KWH-meter on a IP51 switchboard)
 Max. dissipated power ¹: $\leq 4W$

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 - 20 Ω

• 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: $\leq 200ms$
 Max. number of devices which can be network-connected: 32 (up to 255 with RS485 repeater) Highest distance from the supervisor: 1200m



SET UP

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 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

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, measuring current, extra supply voltage, frequency) correspond to the network on which the meter must be connected.

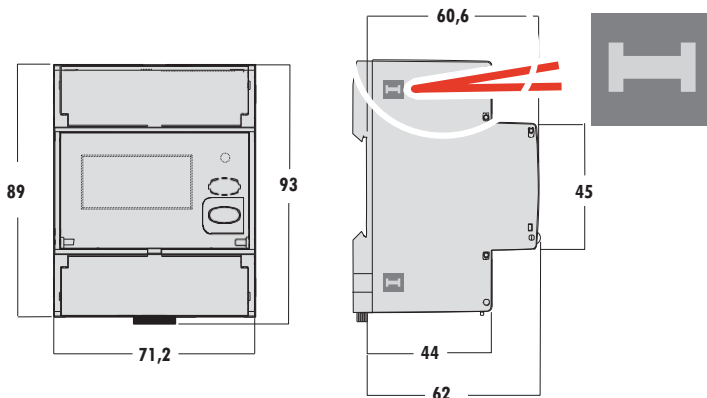
The meter is designed for connection on 3-phase, 3 or 4 wire line. In the wiring scrupulously

respect the wiring diagram; an error in connection unavoidably 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.

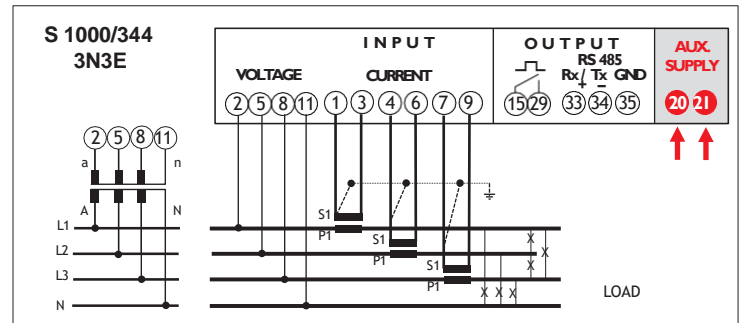
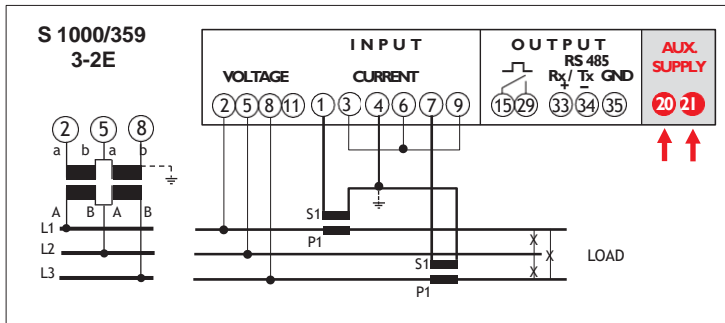
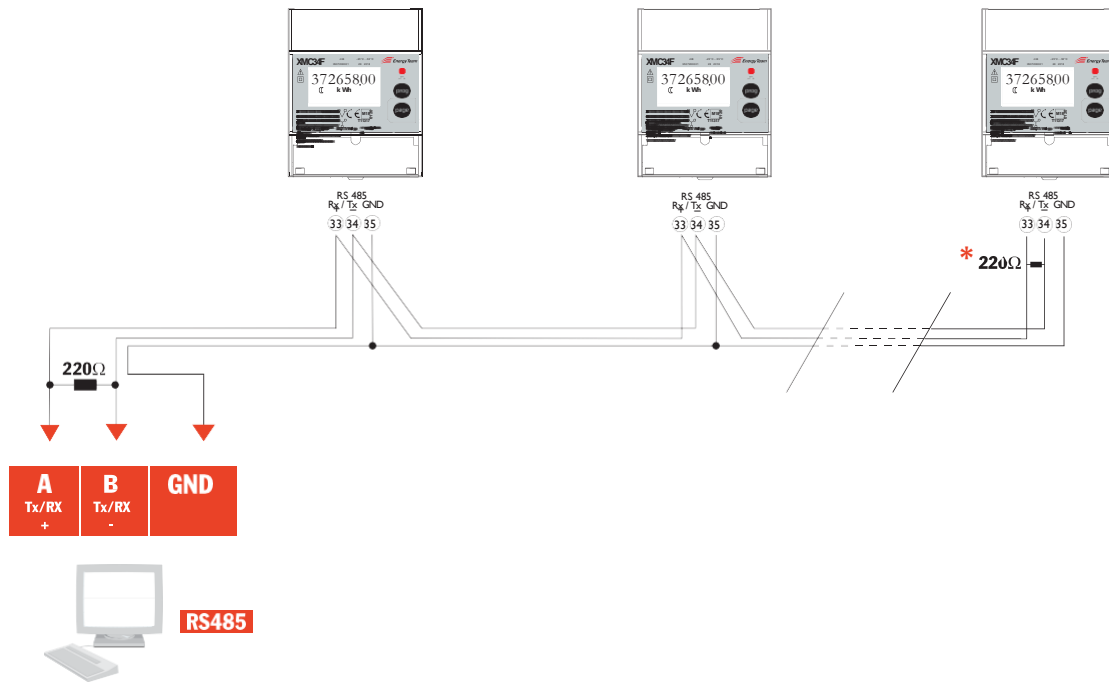
No-one is entitled to carry out repairs on the meter; any tampering will lead to forfeiture of the guarantee as well as the validity of the certification.

Housing sealing mark



MID XMC34F

LAST NETWORK XMC34F



HOUSING SEALING MARK



D1 Sealing positions