



AEL.MF.11

AEL.MF.11 — Single-phase active electronic meter. It operates at 230 V reference voltage over a 5(90) A current range and measures active energy to accuracy class Class B (1). It is MID approved.

230 V50 Hz $\pm 5\%$ **5(90) A**

Direct connection

Class B

Active accuracy (1)

IP54

-40...+70 °C outdoor

4 Tariffs**KEY FEATURES**

- ◆ 230 V, 50 Hz supply voltage
- ◆ 0.25–5(90) A current range
- ◆ Class B (MID) measurement accuracy
- ◆ LCD: date, time, total energy, T1 tariff, serial no.
- ◆ IP54 protection · -40 °C / +70 °C operating range

MID 2014/32/EU

CE

EN 50470

TECHNICAL SPECIFICATIONS**ELECTRICAL DATA**

Reference voltage (Un)	230 V
Operating voltage range	110 V (min) – 265 V (max)
Reference frequency (Fn)	50 Hz $\pm 5\%$
Reference current (In/Ib)	5 A
Maximum current (Imax)	90 A
Starting current (Ist)	0.02 A
Minimum current (Imin)	0.25 A
Transitional current (Itr)	0.5 A
Accuracy class	Active B (Class 1)
Meter constant	1600 imp/kWh
Voltage circuit consumption	≤ 1 W
Current circuit consumption	≤ 1 VA

METERING AND RECORDING

Meter definition	Single-phase, 2-wire, active electronic meter
Connection type	Current and voltage: direct
Number of tariffs	4
Measurement direction	Single direction
Data storage capacity	1 year
LCD display	9 (6+3) digits
LED pulse output	1 LED (active)

COMMUNICATION

Communication interface	Optical port (IEC 62056-21)
Baud rate	300 – 9,600 Baud

ENVIRONMENT AND MECHANICS

IP class	IP54 (outdoor)
Protection class	II
Operating temperature	-40 °C ... +70 °C (3K7)
Relative humidity	95% (non-condensing)
Mechanical / EM environment	M1 / E2 (2014/32/EU)
Operating environment	Non-condensing humidity
ESD withstand	Contact 8 kV · air 15 kV
Impulse voltage withstand	6 kV

BATTERY, CLOCK AND LIFE

System battery life	≥ 10 years
RTC battery life	≥ 10 years
Shelf life	≥ 4 years
Clock accuracy	± 0.5 s/day (23 °C ± 2 °C, EN 62054-21)

STANDARDS AND APPROVALS

Measuring instruments directive	MID 2014/32/EU · CE
Standards	EN 50470-1, EN 50470-3, EN 62052-11, EN 62053-21

