

**OIML Member State**  
The Netherlands

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Project number 2504721  
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Issuing authority NMi Certin B.V.  
Person responsible: M.Ph.D. Schmidt

Applicant and Manufacturer Saudi Meters Company ltd.  
2nd Industrial Area  
4719 Riyadh 14331  
7141 Unit No.1  
Saudi Arabia

Identification of the certified type An **Active electrical energy meter**  
Type: MA309MH4LSA, MA309MH4LSA1, MA309MT3LSA or MA309MT4LSA

Characteristics See page 2 and further

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML Type Evaluation Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

**R 46-1/-2 (2012) "Active electrical energy meters"**

Accuracy class B (MA309MHxxxx) or C (MA309MTxxxx)

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation identified above. This Certificate does not bestow any form of legal international approval.

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate was issued, partial quotation of the Certificate and of the associated OIML Type Evaluation Report(s) is not permitted, although either may be reproduced in full.

Issuing Authority **NMi Certin B.V., OIML Issuing Authority NL1**  
7 July 2023

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated reports:

- No. NMI-2504721-01 dated 22 December 2020 that includes 56 pages;
- No. NMI-2504721-02 dated 22 December 2020 that includes 59 pages;
- No. NMI-2504721-03 dated 22 December 2020 that includes 11 pages;
- No. NMI-2504721-04 dated 22 December 2020 that includes 11 pages.

### Characteristics of the Active electrical energy meter

In Table 1 the general characteristics of the measuring instrument are presented.

**Table 1 General characteristics**

<b>General characteristics MA309MH4LSA</b>	
Meter type	Static
Connection mode (phase, wires, elements)	3p, 4w, 3e
Direction of energy flow / registers	Two-registers, bi-directional
Terminal arrangement	DIN
Protective class	Category 2
Impulse voltage	8 kV
<b>Environmental application</b>	
Ambient temperature range	-40 °C to +70 °C; tested up to +75°C as a specific customer requirement.
Humidity class	H2
IP Rating / environmental use	IP54
<b>Meter quantities</b>	
Nominal voltage ( $U_{nom}$ )	3x133/230V...3x230/400V
Nominal frequency ( $f_{nom}$ )	60 Hz
Maximum current ( $I_{max}$ )	100 A
Transitional current ( $I_{tr}$ )	1 A ( $I_b = 10$ A)
Minimum current ( $I_{min}$ )	0.5 A
Starting current ( $I_{st}$ )	0.040 A
Meter constant	1.000 imp./kWh
<b>Product version</b>	
Hardware version	V4.1/V4.1

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Module version	NB-IoT module CL101—V1.0, CL101Y—V1.1, CL101K—V1.0, CL101G—V1.1, CL101Y1—V1.1, CL101K1—V1.0 LTE module CL102—V2.2, PRIME PLC--CP115A—V5.0
Software identification	LR: 100A1016 Checksum: AC642855

<b>General characteristics MA309MH4LSA1</b>	
Meter type	Static
Connection mode (phase, wires, elements)	3p, 4w, 3e
Direction of energy flow / registers	Two-registers, bi-directional
Terminal arrangement	DIN
Protective class	Category 2
Impulse voltage	8 kV
<b>Environmental application</b>	
Ambient temperature range	-40 °C to +70 °C; tested up to +75°C as a specific customer requirement.
Humidity class	H2
IP Rating / environmental use	IP54
<b>Meter quantities</b>	
Nominal voltage ( $U_{nom}$ )	3x133/230V...3x230/400V
Nominal frequency ( $f_{nom}$ )	60 Hz
Maximum current ( $I_{max}$ )	160 A
Transitional current ( $I_{tr}$ )	2 A ( $I_b = 20$ A)
Minimum current ( $I_{min}$ )	1 A
Starting current ( $I_{st}$ )	0.080 A
Meter constant	1.000 imp./kWh
<b>Product version</b>	
Hardware version	V4.1/V4.1
Module version	NB-IoT module CL101—V1.0, CL101Y—V1.1, CL101K—V1.0, CL101G—V1.1, CL101Y1—V1.1, CL101K1—V1.0 LTE module CL102—V2.2, PRIME PLC--CP115A—V5.0
Software identification	LR: 160A1110 Checksum: 3FC4389C

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<b>General characteristics MA309MT3LSA</b>	
Meter type	Static
Connection mode (phase, wires, elements)	3p, 3w, 2e (CT/VT connected)
Direction of energy flow / registers	Two-registers, bi-directional
Terminal arrangement	DIN
Protective class	Category 2
<b>Environmental application</b>	
Ambient temperature range	-40 °C to +70 °C; tested up to +75°C as a specific customer requirement.
Humidity class	H2
IP Rating / environmental use	IP54
<b>Meter quantities</b>	
Nominal voltage ( $U_{nom}$ )	3x110V
Nominal frequency ( $f_{nom}$ )	60 Hz
Maximum current ( $I_{max}$ )	6 A
Transitional current ( $I_{tr}$ )	0.075 A
Minimum current ( $I_{min}$ )	0.015 A
Starting current ( $I_{st}$ )	0.0015 A
Meter constant	10.000 imp./kWh
<b>Product version</b>	
Hardware version	V4.1/V4.1
Module version	NB-IoT module CL101—V1.0, CL101Y—V1.1, CL101K—V1.0, CL101G—V1.1, CL101Y1—V1.1, CL101K1—V1.0 LTE module CL102—V2.2
Software identification	LR: P1VT1314 Checksum: 98DC3052

<b>General characteristics MA309MT4LSA</b>	
Meter type	Static
Connection mode (phase, wires, elements)	3p, 4w, 3e (CT connected)
Direction of energy flow / registers	Two-registers, bi-directional
Terminal arrangement	DIN
Protective class	Category 2

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<b>Environmental application</b>	
Ambient temperature range	-40 °C to +70 °C; tested up to +75°C as a specific customer requirement.
Humidity class	H2
IP Rating / environmental use	IP54
<b>Meter quantities</b>	
Nominal voltage ( $U_{nom}$ )	3x133/230V...3x230/400V
Nominal frequency ( $f_{nom}$ )	60 Hz
Maximum current ( $I_{max}$ )	6 A
Transitional current ( $I_{tr}$ )	0.075 A
Minimum current ( $I_{min}$ )	0.015 A
Starting current ( $I_{st}$ )	0.0015 A
Meter constant	10.000 imp./kWh
<b>Product version</b>	
Hardware version	V4.1/V4.1
Module version	NB-IoT module CL101—V1.0, CL101Y—V1.1, CL101K—V1.0, CL101G—V1.1, CL101Y1—V1.1, CL101K1—V1.0 LTE module CL102—V2.2, PRIME PLC--CP115A—V5.0
Software identification	LR: P1CT1214 Checksum: E70EB764

### Certificate history:

This revision replaces the previous version.

Revision	Date	Description of the modification
Initial	2020-12-22	-
1	2023-07-07	Impulse voltage level included