OIML Certificate

OIML Member State
The Netherlands

Number R46/2012-A-NL1-23.04 revision 1
Project number 3906012

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. 14 Kingdom of Saudi Arabia
Identification of the certified type	A **measuring instrument** Type: 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	C	for MA309MT4LSA
Accuracy class	D	for MA309MT3LSA

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
17 June 2025

Certification Board

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

- No. NMi-3630882-03 dated 8 September 2023 that includes 60 pages;
- No. NMi-3630882-04 dated 8 September 2023 that includes 12 pages.
- No. NMi-3906012-01 dated 17 June 2025 that includes 30 pages.

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

Table 1 General characteristics

General characteristics MA309MT3LSA	
Meter type	Static
Connection mode (phase, wires, elements)	3p, 3w, 3e (CT/VT connected) 3p, 4w, 3e (CT/VT connected)
Direction of energy flow / registers	Two-registers, bi-directional
Terminal arrangement	3P3W: DIN 43857 3P4W: BS Type
Protective class	Class II
Environmental application	
Ambient temperature range	-25 °C to +70 °C (tested up to +80 °C)
Humidity class	3P3W: H2 3P4W: H2
IP Rating / environmental use	3P3W: IP54 (indoor) 3P4W: IP54 (indoor)
Meter quantities	
Nominal voltage (U_{nom})	3P3W: 3x110V 3P4W: 3x57,73/100…3x120/209
Nominal frequency (f_{nom})	60 Hz
Maximum current (I_{max})	6 A
Basic current (I_n)	1 A or 1.5 A
Transitional current (I_{tr})	0.1 A
Minimum current (I_{min})	0.01 A or 0.015 A
Starting current (I_{st})	0.001 A or 0.0015 A
Meter constant	10.000 imp./kWh

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Product version	
Hardware version	KF13A430 Main V1.1
Power supply board (PS)	KF13A430 PS V1.1
Communication Module version	CL101KG: KF01L064 V3.4
Communication Module version	CL101KG: KF01L064 V3.4
Communication Module version	CL102KG: KF01L153 4G V1.1
Software identification	LR: 4303 Checksum: 7741D0E8

General characteristics MA309MT4LSA	
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 43857
Protective class	Category 2
Environmental application	
Ambient temperature range	-25 °C to +70 °C
Humidity class	H2
IP Rating / environmental use	IP54 (indoor)
Meter quantities	
Nominal voltage (U_{nom})	3x133/230V…3x230/400V
Nominal frequency (f_{nom})	60 Hz
Maximum current (I_{max})	6 A
Basic current (I_n)	1.5 A
Transitional current (I_{tr})	0.1 A
Minimum current (I_{min})	0.015 A
Starting current (I_{st})	0.0015 A
Meter constant	10.000 imp./kWh
Product version	
Hardware version	KF13A427 Main V1.1
Power supply board (PS)	KF13A427 PS V1.1
Module version	CL101KG: KF01L064 V3.4
Software identification	LR: 4202 Checksum: E893748D

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Certificate history:

This revision replaces the previous version.

Revision	Date	Description of the modification
0	8 September 2023	Initial issue
1	17 June 2025	MA309MT3LSA meter is changed from a 3P3W configuration to a 3P4W configuration, changed in voltage from 3x110V to 3x57,73/100 V...3x120/209V and update of communication module CL101KG communication which includes NB+2G+GPS and additional module CL102KG which includes 4G+2G+GPS and a change of operating temperature from-25 °C...+70 °C to -25 °C...+80 °C