

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 Shenzhen Kaifa Technology (Chengdu) Co., Ltd.
NO.1218 Hezuo Rd., Hi-Tech Development Zone (West)
611730 Chengdu
P.R. China

Identification of the certified type **A measuring instrument**
Type: MA309MH4LSA or MA309MH4LSA1

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

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

Characteristics of the measuring instrument

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

Table 1 General characteristics

| General characteristics MA309MH4LSA | |
|--|--|
| 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 |
| Environmental application | |
| 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 |
| Meter quantities | |
| 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 |
| Product version | |
| 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: 100A1016 Checksum: AC642855 |

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| General characteristics MA309MH4LSA1 | |
|---|---|
| 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 |
| Environmental application | |
| 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 |
| Meter quantities | |
| 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 |
| Product version | |
| Hardware version | V4.1/V4.1 |
| Module version | 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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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 |