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OIML Member State

The Netherlands

OIML Certificate



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Issuing authority NMi Certin B.V. Person responsible: M.Ph.D. Schmidt Applicant and Riyadh Factory for Panel Boards Manufacturer P.O. Box 60454 Riyadh 11545 Saudi Arabia

Identification of the certified type An Active electrical energy meter Type: AAA-M300

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



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 21 August 2023



NMi Certin B.V. Thijsseweg 11 2629 JA Delft The Netherlands T +31 88 636 2332 certin@nmi.nl www.nmi.nl This document is issued under the provision that no liability is accepted and that the applicant shall indemnify third-party liability.

Certification Board

The notification of NMi Certin B.V. as Issuing Authority can be verified at www.oiml.org This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon at the top of the electronic version of this certificate.

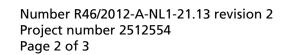






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The conformity was established by the results of tests and examinations provided in the associated reports:

- No. NMi-2512554-01a dated 9 March 2021 that includes 52 pages;
- No. NMi-2512554-02a dated 9 March 2021 that includes 13 pages.

Characteristics of the measuring instrument

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

Table 1 General characteristics

General characteristics	
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 (3k7) – tested up to +75°C as a specific customer requirement
Humidity class	H1
IP Rating / environmental use	IP54 / indoor
Meter quantities	
Nominal voltage (U_{nom})	3x133/230 V and 3x230/400 V
Nominal frequency (fnom)	60 Hz
Maximum current (I _{max})	100 A
Transitional current (I _{tr})	$1 \text{ A} (I_{b} = 10 \text{ A})$
Minimum current (I _{min})	0,5 A
Starting current (I _{st})	0,04 A
Meter constant	1.000 imp./kWh
Product version	(-
Hardware version	Main PCB: OKRW7.820.1376F Power PCB: OKRW7.820.1282C
Software identification	Checksum: 75DF01DD



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Certificate history:

This revision replaces the previous version.

Revision Date	Description	of the modification
Initial 2021-03-0	9 -	
1 2023-07-0	7 Impulse vo	tage level included
2 2023-08-2	1 Correction	typo in OIML-number