

**OIML Member State**  
The Netherlands

Number R46/2012-A-NL1-21.18  
Project number 2630085  
Page 1 of 2

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

Applicant and  
Manufacturer: Basic Electronics Company Limited, CR#2050129466  
Al Hassan Al Basri Street, Al Khaldiah Al Janobiah District,  
Dammam,  
Kingdom of Saudi Arabia

Identification of the  
certified type: A **measuring instrument**  
Type: BE3100WC

Characteristics: See page 2

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**  
18 November 2021

Certification Board

The conformity was established by the results of tests and examinations provided in the associated report(s):

- No. NMI-2630085-01 dated 16 November 2021 that includes 54 pages.

### Characteristics of the measuring instrument

In Table 1 the general characteristics of the measuring instrument are presented. The construction of the measuring instrument is recorded in the Documentation folder no. 2630085-1.

**Table 1 General characteristics**

<b>General characteristics</b>	
Meter type	static
Connection mode (phase, wires, elements)	3p, 4w, 3e
Direction of energy flow / registers	bi-directional
Terminal arrangement	DIN
Protective class	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	H1
IP Rating / environmental use	IP54 / Indoor
<b>Meter quantities</b>	
Nominal voltage ( $U_{nom}$ )	3x133V/230V and 3x230V/400V
Nominal frequency ( $f_{nom}$ )	60 Hz
Maximum current ( $I_{max}$ )	100 A
Transitional current ( $I_{tr}$ )	1 A
Minimum current ( $I_{min}$ )	0,25 A
Starting current ( $I_{st}$ )	0,04 A
Meter constant	1000 imp./ kWh
<b>Product version</b>	
Hardware version	CT3T013_P1_V01.03 (Main PCB), CT3T013_P2_V01.02 (Power PCB)
Software identification	Version number: P0022 Checksum: B20A3806