

EU TYPE EXAMINATION CERTIFICATE

Directive 2014/32/EU, Module B

0598/MID/B/25/079 Issue 1

Product	Active Electrical Energy Meters (Annex V MI-003)		
Model	Meter type(s): VDS11 Series	Description: Single Phase, Active Import/Export (kWh), Electricity Meter	Instrument Traceable No.: 0598/MID/B/25/079
Trademark	Voltaris Metering		
Certificate holder / Manufacturer	Voltaris Metering Ltd McLaren Building, 46 The Priory Queensway, Birmingham, England, B4 7LR		
Directive information	For the instruments mentioned in this Certificate, the following essential requirements of Directive 2014/32/EU apply: - Annex I Essential requirements - Annex V Active electrical meters (MI-003)		
Standards	EN IEC 62052-11:2021/A11:2022, EN 50470-3:2022, IEC 62052-31:2015		
Validity	This certificate is valid until 2035-06-03. The manufacturer must inform SGS Fimko in case of any intended change to the design. Unauthorised changes will invalidate this certificate.		

The Manufacturer is permitted to affix the CE-marking onto the instrument(s) after complying with the conformity assessment procedures referred to in Article 17 of the Directive and to draw up a written declaration of conformity.

Date of issue 2025-07-30
SGS Fimko OY
Notified Body 0598

Signature


Tuomas Hänninen
Certification Manager



Test report(s)

Report Number	Date
SHES240901972401	2025-05-09
SHES240901972402	2025-05-09

Technical information

Meter type(s):	VDS11M, VDS11MT, VDS11S, VDS11ST, VDS11P, VDS11PT, VDS11PR, VDS11PTR, VDS11B, VDS11RB, VDS11, VDS11R
Voltage rating (U^n):	230V
Current rating ($I_{\min} - I_{\text{ref}} (I_{\max})$):	0.15-5(100)A
Frequency (F_n):	50/60Hz
Active Accuracy Class (kWh):	A or B or C (kWh)
Type of circuit:	1P2W
Temperature range:	-25°C ~ +70°C
Software version no.(s):	V2.0
CRC Checksum:	0x0000B54E
Identification location:	LCD
Bill of Materials No.(s):	VDS11M: XH-04-210-D114 V1.0 VDS11MT: XH-04-210-D115 V1.0 VDS11S: XH-04-210-D116 V1.0 VDS11ST: XH-04-210-D117 V1.0 VDS11P: XH-04-210-D118 V1.0 VDS11PR: XH-04-210-D118 V1.0 VDS11RB: XH-04-210-D118 V1.0 VDS11R: XH-04-210-D118 V1.0 VDS11PT: XH-04-210-D119 V1.0 VDS11PTR: XH-04-210-D119 V1.0 VDS11B: XH-04-210-D120 V1.0 VDS11: XH-04-210-D120 V1.0
IP rating:	IP51 Front Display. Meter body not rated. Must be installed in an IP rated enclosure
Insulation protective class:	Class II
LED Pulse Constant	1000 imp/kWh
Impulse Voltage Rating	6kV
AC Voltage Rating	4kV
Main Cover Sealing Type	Main cover clipped in place and sealed with tamper proof sealing tapy
Integrity of Meter	Inaccessible without breaking seals

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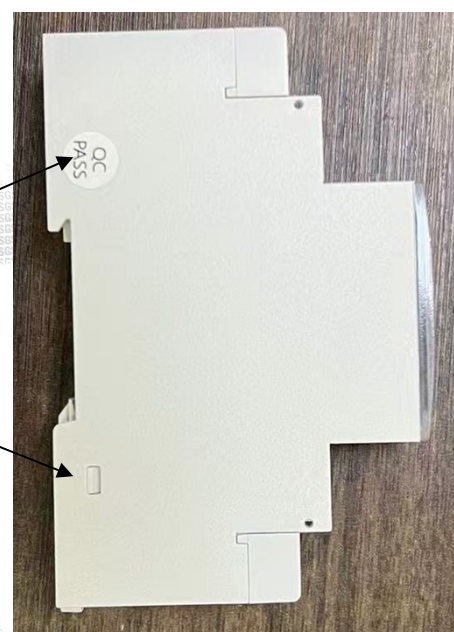
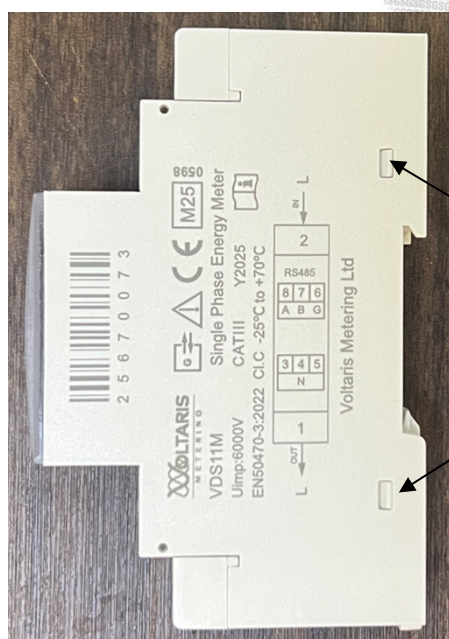
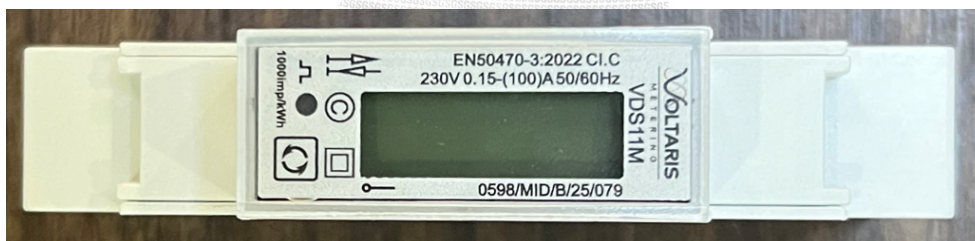
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Intended Location

Indoor

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Photograph of Meter and Sealing Plan



Main Cover Sealing Points

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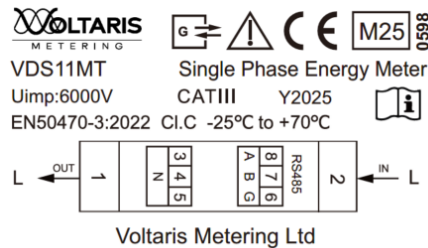
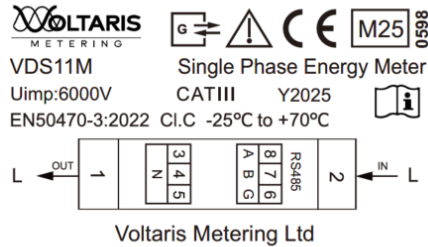
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Example of Nameplates



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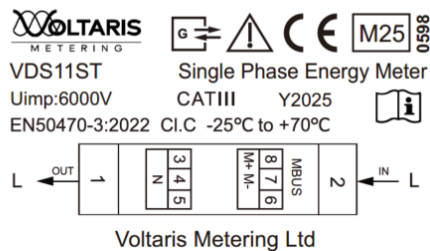
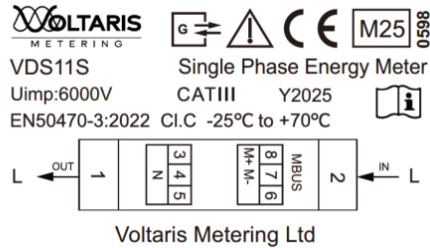
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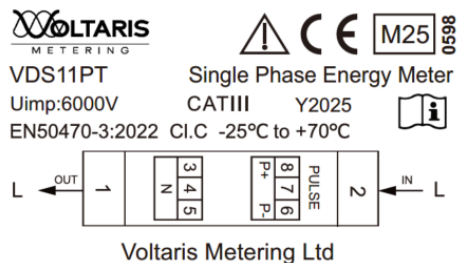
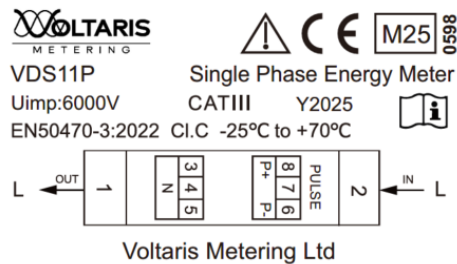
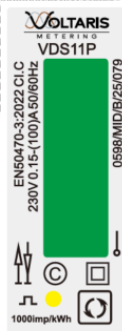
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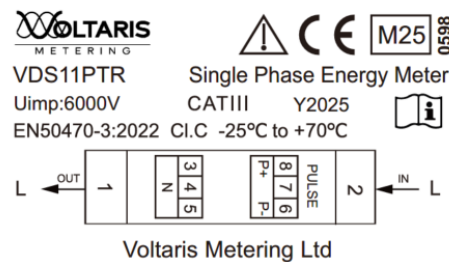
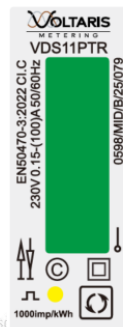
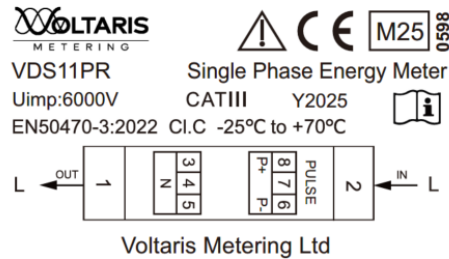
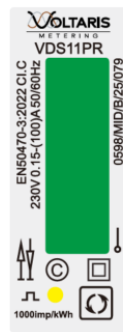
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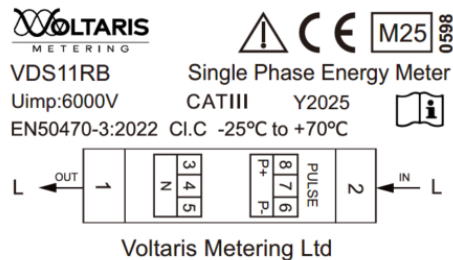
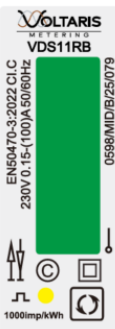
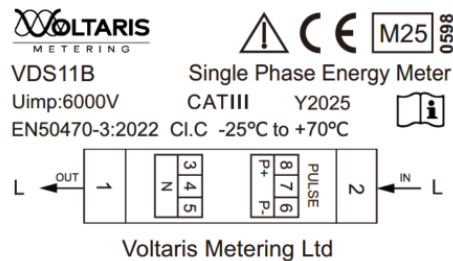
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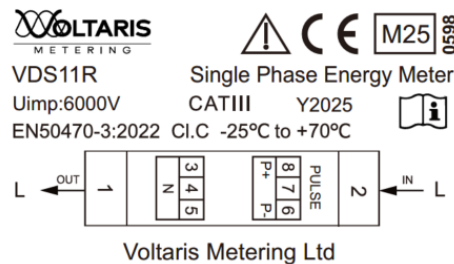
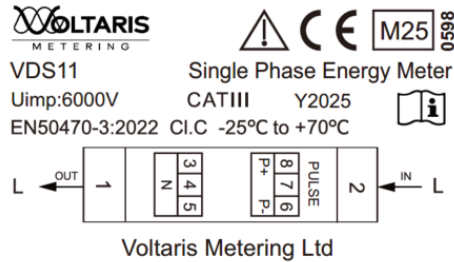
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Calculation of the composite error / MPE

During the type approval examination the influence factors for temperature, frequency and voltage are determined per load point. The table below represents the sum of the square values per load, determined via the following formula:

$$\delta e(T, U, f) = \sqrt{(\delta e^2(T, I, \cos\varphi) + \delta e^2(U, I, \cos\varphi) + \delta e^2(f, I, \cos\varphi))}$$

where

$\delta e(T, I, \cos\varphi)$ = Additional error due to variation of the temperature at the same load
 $\delta e(U, I, \cos\varphi)$ = Additional error due to variation of the voltage at the same load
 $\delta e(f, I, \cos\varphi)$ = Additional error due to variation of the frequency at the same load

		Influence Factors for temperature, frequency and voltage						
Current	PF Cos	-25°C (%)	-10°C (%)	5°C (%)	30°C (%)	40°C (%)	55°C (%)	70°C (%)
I _{min}	1.0	0.28	0.22	0.21	0.24	0.26	0.28	0.46
I _{tr}	1.0	0.34	0.21	0.14	0.07	0.08	0.09	0.13
10I _{tr}	1.0	0.34	0.23	0.14	0.02	0.03	0.05	0.03
I _{max}	1.0	0.23	0.17	0.14	0.13	0.15	0.15	0.26
I _{tr}	0.5ind	0.35	0.31	0.32	0.39	0.40	0.41	0.70
10I _{tr}	0.5ind	0.34	0.22	0.12	0.08	0.09	0.10	0.16
I _{max}	0.5ind	0.30	0.29	0.30	0.33	0.34	0.34	0.61
I _{tr}	0.8cap	0.35	0.22	0.13	0.09	0.10	0.12	0.20
10I _{tr}	0.8cap	0.39	0.28	0.18	0.07	0.06	0.06	0.06
I _{max}	0.8cap	0.18	0.13	0.12	0.12	0.13	0.13	0.23

Annex of Variants

Product variant identification details:

Model	Differences					
	Battery	Communication	Pulse output	Bidirectional energy	Resettable energy	Button
VDS11M	No	RS485	No	Yes	Yes	Yes
VDS11MT	Yes	RS485	No	Yes	Yes	Yes
VDS11S	No	MBUS	No	Yes	Yes	Yes
VDS11ST	Yes	MBUS	No	Yes	Yes	Yes
VDS11P	No	No	Yes	Yes	No	Yes
VDS11PT	Yes	No	Yes	Yes	No	Yes
VDS11PR	No	No	Yes	Yes	Yes	Yes
VDS11PTR	Yes	No	Yes	Yes	Yes	Yes
VDS11B	No	No	Yes	No	No	No
VDS11RB	No	No	Yes	No	Yes	Yes
VDS11	No	No	Yes	Yes	No	No
VDS11R	No	No	Yes	Yes	Yes	Yes

Certificate Revision History

Issue	Date	Comments
1	2025-07-30	Initial issue

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