



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx FTZU 18.0015** Page 1 of 5 [Certificate history:](#)  
Issue 0 (2019-01-31)

Status: **Current** Issue No: 1

Date of Issue: 2021-11-19

Applicant: **Van Houcke NV**  
Vlamingveld 32  
8490 Jabbeke  
**Belgium**

Equipment: **Three-phase asynchronous motors type 1TE1511-..., 1TE1513-..., frame size: : -0C..., -0D..., -0E... (71 to 90)**

Optional accessory:

Type of Protection: **Dust protection by enclosure**

Marking: **Ex tb IIIC T120°C Db**

Approved for issue on behalf of the IECEx  
Certification Body:

**Dipl. Ing. Lukáš Martinák**

Position:

**Head of Certification Body**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**Fyzikálne technický zkušebni ústav  
(Physical -Technical Testing Institute)  
Pikartská 7, 71607 Ostrava - Radvanice  
Czech Republic**





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Manufacturer: **Van Houcke NV**  
Vlamingveld 32  
8490 Jabbeke  
**Belgium**

Manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[CZ/FTZU/ExTR18.0020/00](#)

[CZ/FTZU/ExTR18.0020/01](#)

Quality Assessment Report:

[GB/CML/QAR18.0038/02](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The electric motors types 1TE1511-..., 1TE1513-... are designed for application in explosive dust atmosphere and have explosion protection by enclosure "t".

These electric motors are low voltage asynchronous squirrel cage motors. They have surface cooling with external fan fastened on shaft of electric motor.

The enclosures of electric motor and terminal box are made of cast iron. The external fans are made of aluminium alloy. The fan covers are made of steel plates. The shaft is fastened in roller bearings. The squirrel cage is made from die-cast of aluminium.

The connection design of separate parts and used sealing materials ensure degree of protection provided by cover IP 65 or IP 66. For sealing of contact surfaces of electric motor body and terminal box and detachable parts of terminal box are used gaskets or special profile silicone sealing. The shaft sealing of electric motor in enclosure provides: a DIN3760 shaft sealing ring. Material of these sealing rings is HNBR. The flange motors designed for assembly on gear boxes use a radial shaft sealing for oil sealing.

The electric connection is made in terminal box that is equipped with connection terminals. Entry of cable into the terminal box provide Ex equipment cable glands separately certified.

The electric motor windings could be optionally equipped with temperature sensors PTC, KTY, or resistance temperature sensors. Inside of electric motor can be also installed heating units for prevention of wet air condensation when the electric motor is switched off.

Electrical parameters of basic versions of network supply electric motors are given in annex to this certificate.

The electric motors type 1TE1511-..., 1TE1513-... can be alternatively operated with frequency

converter type SINAMICS G120, S120, G180 or comparable converters described in the manufacturer documentation. The motor used in frequency converter supply windings is equipped with temperature sensors PTC. Nominal cut-off temperature of the PTC is +130°C

**SPECIFIC CONDITIONS OF USE: NO**



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## Equipment (continued):

### General technical parameters:

#### Ambient temperature:

-20°C ≤ Ta ≤ +40°C, or

-40°C ≤ Ta ≤ +40°C

-20°C ≤ Ta ≤ +60°C with decreased output power of electrical motors,

-40°C ≤ Ta ≤ +60°C with decreased output power of electrical motors.

#### Motors supplied by voltage with frequency 50 Hz (network supply):

Voltage: from 200V to 690 V, voltage tolerances: ± 10%

Outputs: from 0,09 kW to 2,2 kW

Duty type: S1

Number of poles: 2, 4, 6, 8

#### Motors supplied by voltage with frequency 60 Hz (network supply):

Voltage: from 220 V to 690 V, voltage tolerances: ± 10 %

Outputs: from 0.105 kW to 2.55 kW

Duty type: S1

Number of poles: 2, 4, 6, 8

#### General technical parameters of motors operated with frequency converter:

The motors of the above mentioned models series cover the following max. rated data:

Rated voltage: max. 690V ±10% (input of converter)

Outputs: max. 2.55 kW

Duty type S9

Frequency from 2 Hz to 100 Hz

Motors for converter supply will be equipped with second name plate with converter and load dates.



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Issue 1:

Evaluation according latest requirements of standard IEC 60079-0:2017.  
Update of documentation.

### **Annex:**

[Annex\\_to\\_IECEX\\_FTZU\\_18\\_0015\\_01.pdf](#)



Annex to Certificate of Conformity  
IECEx FTZU 18.0015 issue No.: 1



Applicant: **Van Houcke NV**

Address: **Vlamingveld 32, 8490 Jabbeke, Belgium**

Electrical Apparatus: **Three-phase asynchronous motors types: 1TE1511-..., 1TE1513-...  
frame size: -0C..., -0D..., -0E... (71 to 90)**

Rated parameters of basic versions of electric motors **Ex tb IIIC T120°C Db:**

Type	400 V 50Hz			460 V 60Hz		
	Output [kW]	Current [A]	Speed [min <sup>-1</sup> ]	Output [kW]	Current [A]	Speed [min <sup>-1</sup> ]
2-poles	(3000 min <sup>-1</sup> ) IE2			(3600 min <sup>-1</sup> )		
1TE1511-0CA2	0,37	0,95	2770	0,43	0,93	3370
1TE1511-0CA3	0,55	1,34	2780	0,63	1,34	3380
1TE1511-0DA2	0,75	1,67	2805	0,86	1,7	3410
1TE1511-0DA3	1,1	2,4	2835	1,27	2,3	3430
1TE1511-0EA0	1,5	3,15	2885	1,75	3,1	3480
1TE1511-0EA4	2,2	4,5	2890	2,55	4,35	3485

Type	400 V 50Hz			460 V 60Hz		
	Output [kW]	Current [A]	Speed [min <sup>-1</sup> ]	Output [kW]	Current [A]	Speed [min <sup>-1</sup> ]
4-poles	(1500 min <sup>-1</sup> ) IE2			(1800 min <sup>-1</sup> )		
1TE1511-0CB2	0,25	0,76	1395	0,29	0,75	1695
1TE1511-0CB3	0,37	1,02	1380	0,43	1,04	1680
1TE1511-0DB2	0,55	1,39	1440	0,63	1,42	1735
1TE1511-0DB3	0,75	1,79	1440	0,86	1,82	1740
1TE1511-0EB0	1,1	2,5	1425	1,27	2,45	1725
1TE1511-0EB4	1,5	3,3	1435	1,75	3,3	1730



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Rated parameters of basic versions of electric motors **Ex tb IIIC T120°C Db** - continuation:

Type	400 V 50Hz			460 V 60Hz		
	Output [kW]	Current [A]	Speed [min <sup>-1</sup> ]	Output [kW]	Current [A]	Speed [min <sup>-1</sup> ]
6-poles	(1000 min <sup>-1</sup> ) IE2			(1200 min <sup>-1</sup> )		
1TE1511-0CC2	0,18	0,68	875	0,21	0,72	1075
1TE1511-0CC3	0,25	0,84	870	0,29	0,87	1070
1TE1511-0DC2	0,37	1,14	925	0,43	1,22	1125
1TE1511-0DC3	0,55	1,65	935	0,63	1,76	1135
1TE1511-0EC0	0,75	2,05	935	0,86	2,1	1135
1TE1511-0EC0	0,75	1,95	935	0,86	2,05	1135
1TE1511-0EC4	1,1	2,9	935	1,27	3,05	1135

Type	400 V 50Hz			460 V 60Hz		
	Output [kW]	Current [A]	Speed [min <sup>-1</sup> ]	Output [kW]	Current [A]	Speed [min <sup>-1</sup> ]
8-poles	(750 min <sup>-1</sup> )			(900 min <sup>-1</sup> )		
1TE1511-0CD2	0,09	0,5	630	0,11	0,53	790
1TE1511-0CD3	0,12	0,65	640	0,14	0,69	795
1TE1511-0DD2	0,18	0,93	690	0,21	0,97	840
1TE1511-0DD3	0,25	1,3	705	0,29	1,27	855
1TE1511-0ED0	0,37	1,34	675	0,43	1,33	830
1TE1511-0ED4	0,55	1,74	665	0,63	1,77	820



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Type	400 V 50Hz			460 V 60Hz		
	Output [kW]	Current [A]	Speed [min <sup>-1</sup> ]	Output [kW]	Current [A]	Speed [min <sup>-1</sup> ]
2-poles	(3000 min <sup>-1</sup> ) IE3			(3600 min <sup>-1</sup> )		
1TE1513-0CA2	0,37	0,95	2850	0,43	0,97	3445
1TE1513-0CA3	0,55	1,34	2850	0,63	1,35	3450
1TE1513-0DA2	0,75	1,56	2850	0,86	1,63	3450
1TE1513-0DA3	1,1	2,25	2885	1,27	2,25	3480
1TE1513-0EA0	1,5	3	2910	1,75	2,95	3510
1TE1513-0EA4	2,2	4,2	2910	2,55	4,2	3510

Type	400 V 50Hz			460 V 60Hz		
	Output [kW]	Current [A]	Speed [min <sup>-1</sup> ]	Output [kW]	Current [A]	Speed [min <sup>-1</sup> ]
4-poles	(1500 min <sup>-1</sup> ) IE3			(1800 min <sup>-1</sup> )		
1TE1513-0CB2	0,25	0,68	1395	0,29	0,69	1695
1TE1513-0CB3	0,37	0,99	1410	0,43	0,99	1710
1TE1513-0DB2	0,55	1,26	1440	0,63	1,25	1740
1TE1513-0DB3	0,75	1,75	1450	0,86	1,72	1750
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1TE1513-0EB4	1,5	3,15	1445	1,75	3,15	1740





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Rated parameters of basic versions of electric motors **Ex tb IIIC T120°C Db** - continuation:

Type	400 V 50Hz			460 V 60Hz		
	Output [kW]	Current [A]	Speed [min <sup>-1</sup> ]	Output [kW]	Current [A]	Speed [min <sup>-1</sup> ]
6-poles	(1000 min <sup>-1</sup> ) IE3			(1200 min <sup>-1</sup> )		
1TE1513-0CC2	0,18	0,59	885	0,21	0,57	1085
1TE1513-0CC3	0,25	0,76	885	0,29	0,74	1085
1TE1513-0DC2	0,37	1,1	940	0,43	1,09	1140
1TE1513-0DC3	0,55	1,53	935	0,63	1,44	1135
1TE1513-0EC0	0,75	1,96	945	0,86	1,87	1140
1TE1513-0EC4	1,1	2,85	940	1,27	3,05	1140