



EU - Type Examination Certificate

- (1) Equipment or Protective Systems Intended for Use
(2) in Potentially Explosive Atmospheres
(Directive 2014/34/EU)

This Certificate has been extended.
Please download the extensions:

- (3) EU - Type Examination Certificate number:

[18_ATEX_0133_D1_en](#)

[18_ATEX_0133_D2_en](#)

FTZÚ 18 ATEX 0133

- (4) Product: **Three-phase asynchronous motors types: 1TE1511-..., 1TE1513-...,
frame size: -0C..., -0D..., -0E... (71 to 90)**
- (5) Manufacturer: **Van Houcke NV**
- (6) Address: **Vlamingveld 32, 8490 Jabbeke, Belgium**

- (7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

- (8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report number:

18/0133 dated 22.11.2018

- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013, EN 60079-31:2014

- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

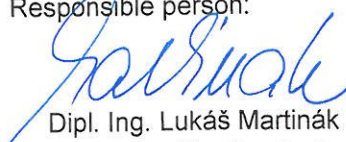
- (11) This certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

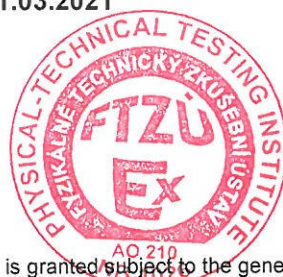
- (12) The marking of the product shall include the following:

 **II 2D Ex tb IIIC T120°C Db**

This certificate is valid till: **11.03.2021**

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 26.11.2018

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Annex: 1 (4 pages)

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Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **EU - Type Examination Certificate No. FTZÚ 18 ATEX 0133**

(15) Description of Product:

The electric motors type 1TE1511-...and 1TE1513-...are designed for application in explosive dust atmosphere and have explosion protection by cover "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 fans and fan covers are made of steel plate. The axial fans are made from aluminium alloy. 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 IP66. 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 alternatively provides: a DIN3760 shaft sealing ring or V-ring shaft sealing. Material of these sealing rings is normally FPM. For service temperature and ambient temperature below -20°C are used sealing rings from HNBR or NBR. The shaft sealing V-ring is protected with additional stainless steel cover. 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.

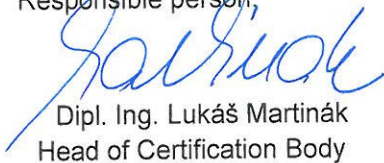
Alternatively permanently connected cable can be used. For both variant the entry of cable into the terminal box provide Ex cable glands separately certified for category II2D, according to Directive 2014/34/EU and ensure degree of protection IP65 at least.

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 electric motors are given in annex No. 1 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

Responsible person;


Dipl. Ing. Lukáš Martinák
Head of Certification Body



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Physical-Technical Testing Institute
Ostrava - Radvanice

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Schedule

(14) **EU - Type Examination Certificate No. FTZÚ 18 ATEX 0133**

(15) Description of Product: - continuation

General technical parameters:

Ambient temperature: $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$, or

$-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

$-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ with decreased output power of electrical motor;

$-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ with decreased output power of electrical motor.

Insulation class: F

Degree of protection: IP65, IP66

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

Voltage: from 200 V to 690 V, voltage tolerances: $\pm 10\%$

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 220V to 690 V, voltage tolerances: $\pm 10\%$

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 $\pm 10\%$ (input of converter)

Outputs: max. 2,55 kW

Duty type: S9

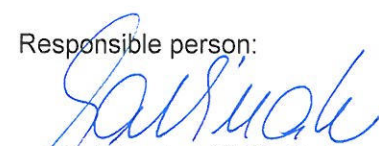
Frequency: from 2 Hz to 100 Hz

Maximum surface temperature: T120°C

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

(16) Report Number.: 18/0133

Responsible person:


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(14) **EU - Type Examination Certificate No. FTZÚ 18 ATEX 0133**

(17) Specific Conditions of Use:
None.

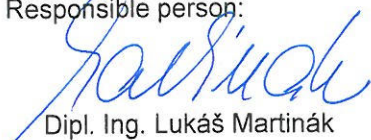
(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this certificate.

(19) Drawings and Documents:

Number	Sheets	Issue	Date	Description
--	70	--	--	Installation, Operation & Maintenance Instructions
VH-0001-182211	1	--	22.11.2018	Rating plates – ATEX Motors

Responsible person:


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Physical-Technical Testing Institute
Ostrava - Radvanice

ANNEX No. 1

to EU - Type Examination Certificate No. FTZÚ 18 ATEX 0133

Manufacturer: **Van Houcke NV**

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

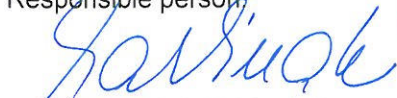
Product: **Three-phase asynchronous motors type: 1TE1511-..., 1TE1513-...
frame size: -0C..., -0D..., -0E... (71 to 90)**

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 ⁻¹]	Output [kW]	Current [A]	Speed [min ⁻¹]
2-poles	(3000 min ⁻¹) IE2			(3600 min ⁻¹)		
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 ⁻¹]	Output [kW]	Current [A]	Speed [min ⁻¹]
4-poles	(1500 min ⁻¹) IE2			(1800 min ⁻¹)		
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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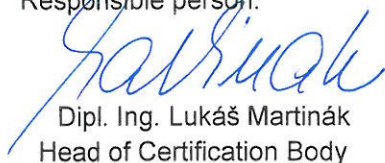
Product: Three-phase asynchronous motors type: 1TE1511-..., 1TE1513-....
frame size: -0C..., -0D..., -0E... (71 to 90)

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 ⁻¹]	Output [kW]	Current [A]	Speed [min ⁻¹]
6-poles	(1000 min ⁻¹) IE2			(1200 min ⁻¹)		
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 ⁻¹]	Output [kW]	Current [A]	Speed [min ⁻¹]
8-poles	(750 min ⁻¹)			(900 min ⁻¹)		
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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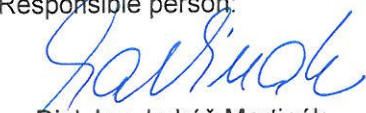
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Rated parameters of basic versions of electric motors Ex tb IIIC T120°C Db - continuation:

Type	400 V 50Hz			460 V 60Hz		
	Output [kW]	Current [A]	Speed [min ⁻¹]	Output [kW]	Current [A]	Speed [min ⁻¹]
2-poles	(3000 min ⁻¹) IE3			(3600 min ⁻¹)		
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 ⁻¹]	Output [kW]	Current [A]	Speed [min ⁻¹]
4-poles	(1500 min ⁻¹) IE3			(1800 min ⁻¹)		
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
1TE1513-0EB0	1,1	2,4	1440	1,27	2,35	1740
1TE1513-0EB4	1,5	3,15	1445	1,75	3,15	1740

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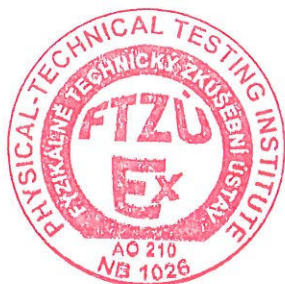
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Rated parameters of basic versions of electric motors **Ex tb IIIC T120°C Db** - continuation:

Type	400 V 50Hz			460 V 60Hz		
	Output [kW]	Current [A]	Speed [min ⁻¹]	Output [kW]	Current [A]	Speed [min ⁻¹]
6-poles	(1000 min ⁻¹) IE3			(1200 min ⁻¹)		
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

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