



EU - Type Examination Certificate

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

(3) EU - Type Examination Certificate number:

FTZÚ 18 ATEX 0134

This Certificate has been extended.
Please download the extensions:

[18_ATEX_0134_D1_en](#)

[18_ATEX_0134_D2_en](#)

- (4) Product: **Three-phase asynchronous motors types:
1TE1511-..., 1TE1513-..., 1TE1611-..., 1TE1613-...
frame size: -1A..., -1B..., -1C..., -1D..., -1E..., -2A... (100 to 200)**
- (5) Manufacturer: **Van Houscke 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:


18/0134 dated 26.11.2018

- (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 or Ex tb IIIC T130°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

Page: 1/4

Annex: 1 (4 pages)



Physical-Technical Testing Institute
Ostrava - Radvanice

(13)

Schedule

(14) **EU - Type Examination Certificate No. FTZÚ 18 ATEX 0134**

(15) Description of Product:

The electric motors type 1TE1511-..., 1TE1513-..., 1TE1611-...and 1TE1613-...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.

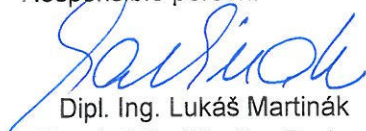
Alternatively permanently connected cable can be used. For both variant the entry of cable into the terminal box provide Ex cable glands separately certified for category II2D, according to Directive 2014/34/EU and ensure degree of protection IP65 at least.

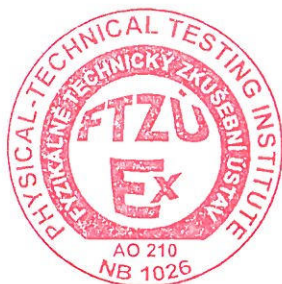
The electric motor windings could be optionally equipped with temperature sensors PTC, KTY, or resistance temperature sensors. Inside of electric motor can be also installed heating units for prevention of wet air condensation when the electric motor is switched off.

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

The electric motors type 1TE1511-..., 1TE1513-..., 1TE1611-... and 1TE1613-...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.

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Page: 2/4

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 0134

(15) Description of Product: - continuation

General technical parameters:

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

$-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ or electrical motors with alternative materials,

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

$-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ for electrical motors with alternative materials and with decreased output power.

Insulation class: F

Degree of protection: IP65, IP66

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

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

Outputs: from 0,75 kW to 37 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 0,86 kW to 41,5 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. 41,5 kW

Duty type: S9

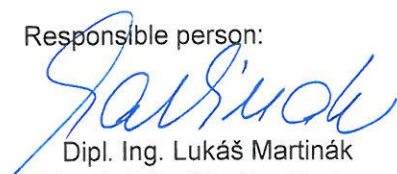
Frequency: from 2 Hz to 100 Hz

Maximum surface temperature: T120°C

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

(16) Report Number.: 18/0134

Responsible person:


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Date of issue: 26.11.2018

Page: 3/4

Annex: 1 (4 pages)

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Physical-Technical Testing Institute
Ostrava - Radvanice

Schedule

(13)

(14) **EU - Type Examination Certificate No. FTZÚ 18 ATEX 0134**

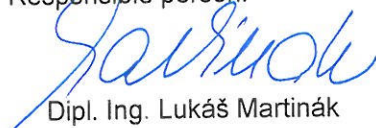
(17) Specific Conditions of Use:
None.

(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:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 26.11.2018

Page: 4/4
Annex: 1 (4 pages)



Physical-Technical Testing Institute
Ostrava - Radvanice

ANNEX No. 1

to EU - Type Examination Certificate No. FTZÚ 18 ATEX 0134

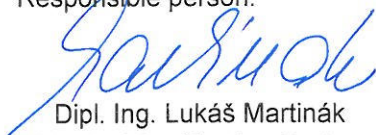
Manufacturer: **Van Houcke NV**
Address: **Vlamingveld 32, 8490 Jabbeke, Belgium**
Product: **Three-phase asynchronous motors types:
1TE1511-..., 1TE1513-..., 1TE1611-..., 1TE1613-...
frame size: -1A..., -1B..., -1C..., -1D..., -1E..., -2A... (100 to 200)**

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

Type	400 V 50Hz				460 V 60Hz			
	Output [kW]	Current [A]	Speed [min ⁻¹]	Tx	Output [kW]	Current [A]	Speed [min ⁻¹]	Tx
2-poles	(3000 min ⁻¹) IE2				(3600 min ⁻¹)			
1TE1511-1AA4	3	6,1	2905	120°C	3,45	5,8	3505	120°C
1TE1511-1BA2	4	7,8	2950		4,55	7,5	3550	
1TE1511-1CA0	5,5	10,5	2950		6,3	10,2	3550	
1TE1511-1CA1	7,5	14,1	2950		8,6	13,7	3550	
1TE1511-1DA2	11	20,5	2955		12,6	19,9	3555	
1TE1511-1DA3	15	27	2955		17,3	27,0	3555	
1TE1511-1DA4	18,5	33,5	2955		21,3	33,0	3555	
1TE1511-1EA2	22	40	2940		24,5	39,0	3540	
1TE1511-2AA4	30	54	2960		33,5	53,0	3560	
1TE1511-2AA5	37	66	2960		41,5	64,0	3560	

4-poles	(1500 min ⁻¹) IE2				(1800 min ⁻¹)			
1TE1511-1AB4	2,2	4,65	1455	120°C	2,55	4,45	1755	120°C
1TE1511-1AB5	3	6,2	1455		3,45	6,0	1755	
1TE1511-1BB2	4	8,2	1460		4,55	8,0	1760	
1TE1511-1CB0	5,5	11,3	1465		6,3	10,9	1765	
1TE1511-1CB2	7,5	14,7	1465		8,6	14,5	1765	
1TE1511-1DB2	11	21	1470		12,6	20,5	1770	
1TE1511-1DB4	15	28	1475		17,3	27,5	1775	
1TE1511-1EB2	18,5	35	1465		21,3	34,0	1765	
1TE1511-1EB4	22	41,5	1465		25,3	40,5	1765	
1TE1511-2AB5	30	56	1470		34,5	55,0	1770	

Responsible person:


Dipl. Ing. Lukáš Martinák
Head of Certification Body



Date of issue: 26.11.2018

Page: 1/4



**Physical-Technical Testing Institute
Ostrava - Radvanice**

ANNEX No. 1

to EU - Type Examination Certificate No. FTZÚ 18 ATEX 0134

Manufacturer: **Van Houcke NV, Vlamingsveld 32, 8490 Jabbeke, Belgium**

Product: **Three-phase asynchronous motors types:
1TE1511-..., 1TE1513-..., 1TE1611-..., 1TE1613-...
frame size: -1A..., -1B..., -1C..., -1D..., -1E..., -2A... (100 to 200)**

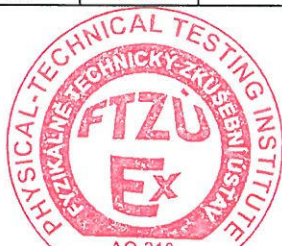
Rated parameters of basic versions of electric motors **Ex tb IIIC Tx°C Db:** - continuation:

Type	400 V 50Hz				460 V 60Hz			
	Output [kW]	Current [A]	Speed [min ⁻¹]	Tx	Output [kW]	Current [A]	Speed [min ⁻¹]	Tx
6-poles	(1000 min ⁻¹) IE2				(1200 min ⁻¹)			
1TE1511-1AC4	1,5	3,7	970	120°C	1,75	3,45	1170	120°C
1TE1511-1BC2	2,2	5,2	965		2,55	4,75	1165	
1TE1511-1CC0	3	7	970		3,45	6,6	1170	
1TE1511-1CC2	4	8,7	970		4,55	8,3	1170	
1TE1511-1CC3	5,5	12	970		6,3	11,3	1170	
1TE1511-1DC2	7,5	16,1	975		8,6	15,5	1175	
1TE1511-1DC4	11	22,5	975		12,6	21,5	1175	
1TE1511-1EC4	15	31	975		18,0	31,0	1170	
1TE1511-2AC4	18,5	36	978		22,0	36,5	1175	
1TE1511-2AC5	22	43	978		26,5	43,5	1175	

8-poles	(750 min ⁻¹)				(900 min ⁻¹)			
1TE1511-1AD4	0,75	2,75	725	120°C	0,86	2,65	875	120°C
1TE1511-1AD5	1,1	4	725	130°C	1,27	3,7	865	
1TE1511-1BD2	1,5	4,25	720	120°C	1,75	4,15	870	
1TE1511-1CD0	2,2	6,2	725		2,55	5,9	875	
1TE1511-1CD2	3	8,1	730		3,45	7,7	875	
1TE1511-1DD2	4	9,7	730		4,55	9,6	880	
1TE1511-1DD3	5,5	13,3	730		6,3	13,2	880	
1TE1511-1DD4	7,5	17,3	730		8,6	16,9	880	
1TE1511-1ED4	11	26	720		13,2	26,0	865	
1TE1511-2AD5	15	32	718		18,0	32,5	865	

Responsible person:

Lukáš Martinák
Dipl. Ing. Lukáš Martinák
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Page: 2/4



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Manufacturer: Van Houcke NV, Vlamingsveld 32, 8490 Jabbeke, Belgium

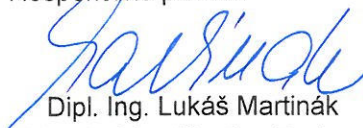
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Rated parameters of basic versions of electric motors Ex tb IIIC Tx°C Db - continuation:

Type	400 V 50Hz				460 V 60Hz			
	Output [kW]	Current [A]	Speed [min ⁻¹]	Tx	Output [kW]	Current [A]	Speed [min ⁻¹]	Tx
2-poles	(3000 min ⁻¹) IE3				(3600 min ⁻¹)			
1TE1513-1AA4	3,0	5,6	2920	120°C	3,45	5,5	3520	120°C
1TE1513-1BA2	4,0	7,4	2955		4,55	7,2	3555	
1TE1513-1CA0	5,5	9,9	2950		6,3	9,7	3545	
1TE1513-1CA1	7,5	13,1	2950		8,6	13,0	3550	
1TE1513-1DA2	11,0	20,0	2955		12,6	19,5	3555	
1TE1513-1DA3	15,0	27,0	2960		17,3	27,0	3560	
1TE1513-1DA4	18,5	32,0	2955		21,3	32,0	3550	
1TE1513-1EA2	22,0	38,5	2950		24,5	37,5	3550	
1TE1513-2AA4	30,0	53,0	2955		33,5	52,0	3555	
1TE1513-2AA5	37,0	65,0	2955		41,5	63,0	3555	

4-poles	(1500 min ⁻¹) IE3			(1800 min ⁻¹)				
1TE1513-1AB4	2,2	4,4	1465	120°C	2,55	4,25	1765	120°C
1TE1513-1AB5	3,0	5,9	1460		3,45	5,8	1755	
1TE1513-1BB2	4,0	7,9	1460		4,55	7,7	1760	
1TE1513-1CB0	5,5	10,8	1470		6,3	10,6	1770	
1TE1513-1CB2	7,5	14,3	1465		8,6	13,8	1765	
1TE1513-1DB2	11,0	20,5	1475		12,6	20,0	1770	
1TE1513-1DB4	15,0	28,5	1475		17,3	28,0	1775	
1TE1513-1EB2	18,5	35,0	1470		21,3	34,5	1770	
1TE1513-1EB4	22,0	41,0	1470		25,3	41,0	1770	
1TE1513-2AB5	30,0	55,0	1470		34,5	55,0	1770	

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Page: 3/4

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1TE1511-..., 1TE1513-..., 1TE1611-..., 1TE1613-...
frame size: -1A..., -1B..., -1C..., -1D..., -1E..., -2A... (100 to 200)**

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

Type	400 V 50Hz				460 V 60Hz			
	Output [kW]	Current [A]	Speed [min ⁻¹]	Tx	Output [kW]	Current [A]	Speed [min ⁻¹]	Tx
6-poles	(1000 min ⁻¹) IE3				(1200 min ⁻¹)			
1TE1513-1AC4	1,5	3,45	970	120°C	1,75	3,45	1170	120°C
1TE1513-1BC2	2,2	4,7	970		2,55	4,75	1170	
1TE1513-1CC0	3,0	6,5	970		3,45	6,1	1170	
1TE1513-1CC2	4,0	8,4	970		4,55	8,1	1170	
1TE1513-1CC3	5,5	11,6	970		6,3	11,1	1170	
1TE1513-1DC2	7,5	15,2	975		8,6	14,6	1175	
1TE1513-1DC4	11,0	22,0	975		12,6	21,5	1175	
1TE1513-1EC4	15,0	29,5	975		18,0	30,5	1170	
1TE1513-2AC4	18,5	37,0	978		22,0	37,5	1175	
1TE1513-2AC5	22,0	43,5	978		26,5	44,0	1175	

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Page: 4/4