



EC-Type Examination Certificate (1)

(2)**Equipment or Protective Systems Intended for use** in Potentially Explosive Atmospheres Directive 94/9/EC

(3) EC-Type Examination Certificate Number:

FTZÚ 13 ATFX 0039

(4) Equipment: Three-phase asynchronous motors types

> 1MB1511-..., 1MB1513-..., 1MB1611-..., 1MB1613-..., frame size: -2B..., -2C..., -2D..., -3A.... (225 to 315)

(5) Manufacturer:

Siemens AG.

Industry Sector, Drive Technologies Division, Large Drives

(6) Address:

Vogelweiherstraße 1-15, 90441 Nürnberg, Germany

- (7) This equipment or protective system and any of acceptable variation thereto are 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 Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No

13/0039 dated 31.10.2013

(9) Compliance with Essential Health and safety requirements has been assured by compliance with:

EN 60079-0:2012

EN 60079-31:2009

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- (12) The marking of the equipment or protective system shall include following:

II_{2D} Ex tb IIIC T120°C Db or Ex tb IIIC T130°C Db

This EC-Type Examination Certificate is valid till:

04.11.2018

Responsible person:

Dipl. Ing. Lukáš Martinák

Head of certification body

Date of issue: 04.11.2013

Page: 1/3 Annex: 1

This certificate is granted subject to the general conditions of the Physical Technical Testing Institute. This certificate may only be reproduced in its entirety and without any change, schedule included.



Ostrava-Radvanice

Schedule

(14) EC-Type Examination Certificate N° FTZÚ 13 ATEX 0039

(15) Description of Equipment:

The electric motors type 1MB1511-..., 1MB1513-..., 1MB1611-... and 1MB1613-... 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 94/9/ES 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. The application of heaters type RSV that are certified Ex components II2G with type of protection - increased safety "e", certificate Sira 02 ATEX 3410U (IECEx SIR 10.0151U) was verified.

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

General technical parameters:

Ambient temperature:

 -20° C \leq Ta \leq 40°C, or

-40°C ≤ Ta ≤ 40°C for electrical motors with alternative materials,

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

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

Insulation class:

Degree of protection:

IP65, IP66

Motors supplied by voltage with frequency 50Hz:

Voltage:

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

Outputs:

from 18,5 kW to 200 kW

Duty type:

S1

Number of poles:

2, 4, 6, 8

Motors supplied by voltage with frequency 60Hz:

Voltage:

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

Outputs:

from 22 kW to 230 kW

Duty type:

Number of poles:

2, 4, 6, 8

Responsible person:

Date of issue: 04.11.2013

Dipl. Ing. Lukáš Martinák

Head of certification body

Page: 2/3

This certificate is granted subject to the general conditions of the Physical Technical Testing Institute. This certificate may only be reproduced in its entirety and without any change, schedule included.

AO 210

NB 1026



(13) Schedule

(14) EC-Type Examination Certificate N° FTZÚ 13 ATEX 0039

(16) Report No.: 13/0039

(19) List of documentation:

- (17) Special conditions for safe use: No conditions.
- (18) Essential Health and Safety Requirements: They are included in standards, which are mentioned in clause (9) of this certificate. The product was approved in accordance with above mentioned standards.

- 1							
	Technical description electric motors series						
	1MB1511, 1MB1513, 1MB1611, 1MB1613, FS 225 to 315 (tb)						
	Winding data printout, under the list in annex of technical description No. 1.1 and						
	Catalogue electric motor data 1MB15x1						
	Catalogue electric motor	r data 1MB15x3,	18.07.2013				
	Drawings No.:	59018225200001 AA	04.07.2013				
		59018280200001_AA	19.07.2013				
		59018225212000_AA	07.03.2013				
		59018280212000_AA	20.05.2013				
		59018315212000_AA	07.05.2013				
		59018225216000_AA	29.04.2013				
		59018280216000_AA	07.06.2013				
		59018315216000_AA	03.06.2013				
		59018315216001_AA	02.09.2013				
		59018000212000_AA	29.05.2013				
		59018225212002_AA	01.10.2013				
		59018180290000_AA	04.10.2013				
		5_901_82252_90_005	03.10.2013				
	. 3	5_901_82252_90_006	03.10.2013				
		5_901_82252_30_000	31.10.2013				

Responsible person:

Instruction for use No.

Production process No.: N7-07.007

Table No.:

Dipl. Ing. Lukáš Martinák Head of certification body



Description of the insulation system No. 56501331000040

WB0027

56100000002002

1 TB_overview

Date of issue: 04.11.2013

28.06.2010

19.09.2013

01.09.2011

14.02.2013

05/2013

Page: 3/3

This certificate is granted subject to the general conditions of the Physical Technical Testing Institute. This certificate may only be reproduced in its entirety and without any change, schedule included.



Ostrava-Radvanice

Annex No.1 to

EC-Type Examination Certificate N° FTZÚ 13 ATEX 0039

Manufacturer: Siemens AG,

Industry Sector, Drive Technologies Division, Large Drives

Address:

Vogelweiherstraße 1-15, 90441 Nürnberg, Germany

Equipment:

Three-phase asynchronous motors types

1MB1511-..., 1MB1513-..., 1MB1611-..., 1MB1613-...,

frame size: -2B... to -3A... (225 to 315)

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

		400 V	50Hz		460 V 60Hz					
Type	Output [kW]	Current [A]	Speed [min ⁻¹]	Tx	Output [kW]	Current [A]	Speed [min ⁻¹]	Тх		
2-pole	1000000	(3000 min ⁻¹) IE2					(3000 min ⁻¹) IE2 (3600 min ⁻¹)			
1MB1511-2BA	45	79	2965		51	78	3565			
1MB1511-2CA	55	96	2970		62	94	3570			
1MB1511-2DA	75	133	2978		84	128	3578	1		
1MB1511-2DA	90	157	2975	120°C	101	151	3575	40000		
1MB1511-3AA	110	187	2982	120 C	123	182	3582	120°C		
1MB1511-3AA	132	220	2982		148	215	3582			
1MB1511-3AA	160	265	2982		180	255	3580			
1MB1511-3AA	200	330	2982		224	320	3580			

4-pole		(1500 min ⁻¹) IE2				E2 (1800 min ⁻¹)		
1MB1511-2BB	37	65	1470		42,5	65	1770	
1MB1511-2BB	45	80	1475		52	80	1775	1
1MB1511-2CB	55	100	1480		63	99	1780	1
1MB1511-2DB	75	132	1485		86	130	1785	
1MB1511-2DB	90	159	1486	120°C	104	158	1785	120°C
1MB1511-3AB	110	195	1490		127	195	1788	1
1MB1511-3AB	132	230	1490		152	230	1788	
1MB1511-3AB	160	280	1490		184	275	1788	1
1MB1511-3AB	200	350	1490		230	350	1790	

Responsible person:

Dipl. Ing. Lukáš Martinák Head of certification body AD 210
NB 1026

Date of issue: 04.11.2013

Number of pages of annex: 4

Page: 1/4



Ostrava-Radvanice

Annex No.1 to

EC-Type Examination Certificate N° FTZÚ 13 ATEX 0039

Equipment: Thre

Three-phase asynchronous motors types

1MB1511-..., 1MB1513-..., 1MB1611-..., 1MB1613-...,

frame size: -2B... to -3A... (225 to 315)

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

		400 V	50Hz		460 V 60Hz				
Туре	Output [kW]	Current [A]	Speed [min ⁻¹]	Tx	Output [kW]	Current [A]	Speed [min ⁻¹]	Tx	
6-pole		(1000 min ⁻¹) IE2				(1200 min ⁻¹)			
1MB1511-2BC	30	57	980		36	59	1175		
1MB1511-2CC	37	70	982		44,5	73	1180		
1MB1511-2DC	45	83	985		54	87	1185		
1MB1511-2DC	55	99	985		66	104	1185		
1MB1511-3AC	75	138	988	120°C	90	143	1186	120°C	
1MB1511-3AC	90	165	988		108	171	1186		
1MB1511-3AC	110	196	988		132	200	1186		
1MB1511-3AC	132	235	988		158	240	1188		
1MB1511-3AC	160	285	988		192	290	1188		

8-pole		(750 min ⁻¹)				(900 min ⁻¹)			
1MB1511-2BD	18,5	38,5	730		22	38,5	880		
1MB1511-2BD	22	44	730		26,5	45	880		
1MB1511-2CD	30	59	732	1	36	60	880		
1MB1511-2DD	37	75	736		44,5	76	885	120°C	
1MB1511-2DD	45	89	738	120°C	54	91	885		
1MB1511-3AD	55	107	740	1	66	110	890		
1MB1511-3AD	75	143	738		90	147	888		
1MB1511-3AD	90	167	740	1	108	174	890		
1MB1511-3AD	110	205	740	1	132	215	888		
1MB1511-3AD	132	250	740	130°C	158	255	888	130°C	

Responsible person:

Dipl. Ing. Lukáš Martinák Head of certification body AO 210
NB 1026

Date of issue: 04.11.2013

Page: 2/4



Annex No.1 to

EC-Type Examination Certificate N° FTZÚ 13 ATEX 0039

Equipment:

Three-phase asynchronous motors types

1MB1511-..., 1MB1513-..., 1MB1611-..., 1MB1613-...,

frame size: -2B... to -3A... (225 to 315)

Rated parameters of basic versions of electric motors Ex th IIIC Tx°C Db, continue:

		400 V	50Hz		460 V 60Hz			
Туре	Output [kW]	Current [A]	Speed [min ⁻¹]	Tx	Output [kW]	Current [A]	Speed [min ⁻¹]	Tx
2-pole		(3000 m	nin ⁻¹) IE3		(3600 min ⁻¹)			
1MB1513-2BA	45	78	2960		51	77	3560	
1MB1513-2CA	55	95	2975		62	92	3575	
1MB1513-2DA	75	128	2975		84	125	3575	
1MB1513-2DA	90	152	2975	120°C	101	149	3575	40000
1MB1513-3AA	110	183	2982	120 C	123	179	3582	120°C
1MB1513-3AA	132	220	2982		148	215	3582	
1MB1513-3AA	160	265	2982		180	255	3582	
1MB1513-3AA	200	330	2982		224	320	3582	

4-pole		(1500 min ⁻¹) IE3			(1800 min ⁻¹)			
1MB1513-2BB	37	66	1478		42,5	66	1778	
1MB1513-2BB	45	80	1478		52	81	1778	
1MB1513-2CB	55	96	1482		63	97	1782	
1MB1513-2DB	75	133	1485		86	131	1785	
1MB1513-2DB	90	157	1485	120°C	104	158	1785	120°C
1MB1513-3AB	110	191	1488		127	191	1788	
1MB1513-3AB	132	230	1490		152	225	1788	
1MB1513-3AB	160	275	1490		184	275	1788	
1MB1513-3AB	200	340	1488		230	345	1788	

Responsible person:

Dipl. Ing. Lukáš Martinák

Head of certification body

Date of issue: 04.11.2013

Page: 3/4



Ostrava-Radvanice

Annex No.1 to

EC-Type Examination Certificate N° FTZÚ 13 ATEX 0039

Equipment:

Three-phase asynchronous motors types

1MB1511-..., 1MB1513-..., 1MB1611-..., 1MB1613-...,

frame size: -2B... to -3A... (225 to 315)

Rated parameters of basic versions of electric motors Ex th IIIC Tx°C Db, continue:

	400 V 50Hz				460 V 60Hz			
Туре	Output [kW]	Current [A]	Speed [min ⁻¹]	Tx	Output [kW]	Current [A]	Speed [min ⁻¹]	Tx
6-pole		(1000 min ⁻¹) IE3			(1200 min ⁻¹)			
1MB1513-2BC	30	56	982		36	58	1180	
1MB1513-2CC	37	67	985		44,5	69	1182	
1MB1513-2DC	45	82	988		54	84	1186	
1MB1513-2DC	55	99	988		66	104	1186	
1MB1513-3AC	75	136	990	120°C	90	142	1190	120°C
1MB1513-3AC	90	161	990		108	170	1189	
1MB1513-3AC	110	199	991	,	132	205	1190	
1MB1513-3AC	132	240	991	E	158	245	1190	
1MB1513-3AC	160	290	991		192	300	1190	

Responsible person:

Dipl. Ing. Lukáš Martinák Head of certification body AO 210

AD 210

AND 1026

Date of issue: 04.11.2013

Page: 4/4





(1)

Supplement No. 1 to **EC-Type Examination Certificate**

(2)

Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres (Directive 94/9/EC)

(3) EC-Type Examination Certificate Number:

FTZÚ 13 ATEX 0039

(4) Equipment:

Three-Phase Asynchronous Motor type:

1MB1511-..., 1MB1513-..., 1MB1611-..., 1MB1613-... Frame size: -2B..., -2C..., -2D..., -3A..., (225 to 315)

(5) Manufacturer:

Siemens AG,

Process Industries and Drives, Large Drives, Products

(6) Address:

Vogelweiherstraße 1-15, 90441 Nürnberg, Germany

(7) This supplement of certificate is valid for: - modification of certified apparatus

- verification according to new standard
- prolongation of certificate validity
- change of company name
- (8) Modification of certified apparatus (protective system) and any of its approved variants are specified in documentation, a list of which is mentioned in the schedule of this certificate.
- (9) This supplement to type examination certificate is valid only for type examination of design and construction of product sample in accordance with Annex 3 Paragraph 6) of Directive No. 94/9/EC. The Directive contains other requirements, which manufacturer shall fulfil before products are placed on the market or introduce in service.
- (10) Safety requirements of modified parts were fulfilled by satisfying the following standards:

EN 60079-15:2010; EN 60079-31:2014 EN 60079-0:2012;

(11) Marking of equipment shall contain symbols:



II 2D Ex tb IIIC T120°C Db or Ex tb IIIC T130°C Db

11.03.2021 (12) This type examination certificate is valid till:

Responsible person:

Date of issue: 11.03.2016

Dipl. Ing. Lukas Martinák Head of Certification Body

Page: 1/3



(13) Schedule

Supplement No. 1 to EC-Type Examination Certificate N° FTZÚ 13 ATEX 0039

(15) Description of Equipment:

The object of this supplement is as follow:

- Recertification according to the new standard EN 60079-31:2014.
- Change of manufacturer name.
- Prolongation of certificate validity.
- Verification of equipment modification as follows:

The electric motors type 1MB1511-..., 1MB1513-..., 1MB1611-..., 1MB1613-... 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. For sealing of shaft of electric motor can be alternatively used new V-ring (HNBR70).

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. 230 kW

Duty type S9

Frequency from 2 Hz to 100 Hz

Ambient temperature same as described in basic certificate

Maximum surface temperature: T120°C

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

Technical parameters and construction of motors described in basic certificate remain unchanged.

(16) Report No.: 13/0039-1 dated 11.03.2016

Responsible person: // Date of issue: 11.03.2016

Dipl. Ing. Lukáš Martinák
Head of Certification Body

NB 1026

Page: 2/3



(13)

Schedule

Supplement No. 1 to EC-Type Examination Certificate N° FTZÚ 13 ATEX 0039

- (17) Special conditions for safe use: None
- (18) Essential Health and Safety Requirements:

They are included in standards, which are mentioned in clause (10) of this supplement to certificate. The product was approved in accordance with above mentioned standards.

(19) List of Documentation:

Document No.:

Date:

Technical description electric motors series 1MB1511-...,

1MB1513-..., 1MB1611-..., 1MB1613-...; FS 225 to 315 25.02.2016

5_901_80002_20_000	22.07.2015
5_901_80002_25_000	22.07.2015
5_901_82252_30_001	04.02.2016
5_901_82252_90_007	25.02.2016
3_228_7_4_235_183_00 A	20.07.2009
A5E37583944A	16.02.2016

Table No.:

3.1 and 3.2	17.02.2016
4.1, 4.2, 4.3 and 4.4	25.02.2016
5.1, 5.2, 5.3 and 5.4	25.02.2016

Responsible person

Dipl. Ing. Lukás Martinák Head of Certification Body Date of issue: 11.03.2016

Page: 3/3





(1) Supplementary EU - Type Examination Certificate No.2

(2)

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

(3) EU - Type Examination Certificate number:

FTZÚ 13 ATEX 0039

(4) Product:

Three-Phase Asynchronous Motor type

1MB1511-..., 1MB1513-..., 1MB1611-..., 1MB1613-... Frame size: -2B..., -2C..., -2D..., -3A..., (225 to 315)

(5) Manufacturer:

Siemens AG

(6) Address:

Vogelweiherstraße 1-15, 90441 Nürnberg, Germany

- (7) This supplementary certificate extends EU Type Examination Certificate No. FTZÚ 13 ATEX 0039 to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached 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, as modified by this supplementary certificate, 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.
- (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) The marking of the product shall include the following:

x II 2D Ex th IIIC T120°C Db or Ex th IIIC T130°C Db

(12) This certificate is valid till: 31.12.2025

Responsible person:

Dípl. Ing. Lukáš Martinák Head of Certification Body AO 210
NB 1026

Date of issue: 14.12.2020

Page: 1/2



(13)

Schedule

Supplementary EU - Type Examination Certificate No. 2 to FTZÚ 13 ATEX 0039

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Prolongation of certificate validity.
- Manufacturer name update.
- Modification of the motors: nominal cut of temperature of built-in PTC sensors is alternatively 155 °C.

Technical parameters and construction of the motors described in basic certificate and supplement No. 1 excepting above described modification remain unchanged.

(16) Report Number:

13/0039/2

dated 14.12.2020

(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 supplementary certificate.

(19) Drawings and Documents:

Number

Revision

Date

Description

A5E50487309A

AA

25.09.2020

Motor description

Responsible person:

Dipl. Ing. Lukáš Martinák Head of Certification Body AO 210
NB 1026

NB 1026

Date of issue: 14.12.2020

Page: 2/2





(1) Supplementary EU - Type Examination Certificate No.3

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

(3) EU - Type Examination Certificate number:

FTZÚ 13 ATEX 0039

(4) Product:

Three-Phase Asynchronous Motor type

1MB1511-..., 1MB1513-..., 1MB1611-..., 1MB1613-... Frame size: -2B..., -2C..., -2D..., -3A..., (225 to 315)

(5) Manufacturer:

Siemens AG

(6) Address:

Vogelweiherstraße 1-15, 90441 Nürnberg, Germany

- (7) This supplementary certificate extends EU Type Examination Certificate No. FTZÚ 13 ATEX 0039 to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached 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, as modified by this supplementary certificate, 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.
- (9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.
- (10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018, EN 60079-31:2014

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) The marking of the product shall include the following:

Ex II 2D Ex to IIIC T120°C Db or Ex to IIIC T130°C Db

(12) This certificate is valid till: 31.07.2026

Responsible person:

Dipl. Ing. Lukáš Martinák Head of Certification Body Date of issue: 15.07.2021

Page: 1/4

Annex: 1 (3 pages)



(13)

Schedule

Supplementary EU - Type Examination Certificate No. 3 to FTZÚ 13 ATEX 0039

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- verification of the product according latest requirement of standards EN IEC 60079-0:2018;
- prolongation of certificate validity;
- modification of fan hood;
- new type of anti-condensation heating is alternatively used;
- new power deratings factors for operation with frequency converter are verified;
- 8 pole motors with efficiency class IE3 are added;
- documentation is updated.

Technical parameters and construction of the motors described in basic certificate and supplements No. 1 to 2 excepting above described modifications remain unchanged.

(16) Report Number:

13/0039/3

dated 15.07.2021

(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 supplementary certificate.

Responsible person:

V Z. Lah' ga

Dipl. Ing. Lukáš Martinák Head of Certification Body



Date of issue: 15.07.2021

Page: 2/4

Annex: 1 (3 pages)



(13)

Schedule

Supplementary EU - Type Examination Certificate No. 3 to FTZÚ 13 ATEX 0039

(19) Drawings and Documents:

Number	Revision	Date	Description
A5E50487309A_AB	AB	15.06.2021	Description of Explosion Proof Induction Machines
A5E51081442A_AA	AA	15.06.2021	Description of VSD Power Derating
A5E44455710A_AC	AC	07.2020	Operating Instructions
A5E37583944A_AD	AD	21.01.2021	Declaration of compliance with the order
A5E39262739A_AD	AD	21.01.2021	Declaration of compliance with the order
A5E50908996A_AA	AA	25.05.2021	Drawing
A5E50906475A_AA	AA	25.05.2021	Drawing
A5E50999983A_AA	AA	25.05.2021	Drawing
A5E50680730A_AB	AB	09.07.2021	Drawing
A5E50893759A_AA	AA	28.04.2021	Drawing
A5E46717629A_AB	AB	29.01.2021	Drawing
A5E46719079A_AB	AB	25.01.2021	Drawing
A5E50681304A_AA	AA	25.01.2021	Drawing
A5E50712315A_AA	AA	25.01.2021	Drawing
A5E50708653A_AA	AA	29.01.2021	Drawing
A5E46707913A_AB	AB	21.01.2021	Drawing
A5E46697466A_AB	AB	25.01.2021	Drawing
A5E50688607A_AA	AA	02.06.2021	Drawing
A5E50714631A_AA	AA	02.06.2021	Drawing
A5E48099715A_AB	AB	22.04.2021	Drawing
A5E48479980A_AB	AB	30.04.2021	Drawing
A5E43368333A_AF	AF	26.05.2021	Drawing
A5E43368783A_AE	AE	25.03.2020	Drawing
A5E50682267A_AA	AA	22.04.2021	Drawing
A5E50675386A_AA	AA	28.04.2021	Drawing
A5E50679488A_AA	AA	28.04.2021	Drawing
A5E50884555A_AA	AA	30.04.2021	Drawing

Responsible person:

Dipl. Ing. Lukáš Martinák Head of Certification Body



Date of issue: 15.07.2021

Page: 3/4

Annex: 1 (3 pages)



(13)

Schedule

Supplementary EU - Type Examination Certificate No. 3 to FTZÚ 13 ATEX 0039

(19) Drawings and Documents (continuation):

Number	Revision	Date	Description
A5E51000311A_AA	AA	25.05.2020	Drawing
A5E50812004A_AB	AB	14.01.2021	Insulation system
A5E50812004A_AB	AB	18.01.2021	Insulation system Annex
A5E50829613A_AB	AB	14.01.2021	Insulation system
A5E50829613A_AB	AB	18.01.2021	Insulation system Annex
A5E50829621A_AB	AB	14.01.2021	Insulation system
A5E50829621A_AB	AB	18.01.2021	Insulation system Annex
A5E50811391A_AA	AA	14.01.2021	Insulation system
A5E50811401A_AA	AA .	14.01.2021	Insulation system
A5E50811407A_AA	AA	14.01.2021	Insulation system
A5E48657243A_AC	AC	03.05.2021	Paint system
A5E50662034A_AB	AB	23.06.2021	Table
A5E51032489A_AA	AA	21.06.2021	Table
A5E45671671A_AB	AB	30.04.2021	Table
A5E51108107A_AA	AA	15.06.2021	Table

Responsible person:

Dipl. Ing. Lukáš Martinák Head of Certification Body



Date of issue: 15.07.2021

Page: 4/4

Annex: 1 (3 pages)



ANNEX

to Supplementary EU - Type Examination Certificate No. 3 to FTZÚ 13 ATEX 0039

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

						•			
		400 V 50Hz				460 V 60Hz			
Туре	Output [kW]	Current [A]	Speed [min ⁻¹]	Тх	Output [kW]	Current [A]	Speed [min ⁻¹]	Тх	
2-pole		(3000 m	nin ⁻¹) IE2			(3600	min ⁻¹)		
1MB1511-2BA	45	79	2965		51	78	3565		
1MB1511-2CA	55	97	2970		62	94	3570		
1MB1511-2DA	75	134	2978		84	128	3578		
1MB1511-2DA	90	157	2975	40000	101	151	3575		
1MB1511-3AA	110	187	2982	120°C	123	182	3582	120°C	
1MB1511-3AA	132	220	2982		148	215	3582	1	
1MB1511-3AA	160	265	2982		180	255	3580	1	
1MB1511-3AA	200	330	2982		224	320	3580	1	

4-pole		(1500 n	nin ⁻¹) IE2			(1800	min ⁻¹)	
1MB1511-2BB	37	65	1470		42,5	65	1770	
1MB1511-2BB	45	80	1475	1	52	80	1775	120°C
1MB1511-2CB	55	100	1480		63	99	1780	
1MB1511-2DB	75	132	1485		86	130	1785	
1MB1511-2DB	90	159	1486	120°C	104	158	1785	
1MB1511-3AB	110	195	1490		127	195	1788	
1MB1511-3AB	132	230	1490	1 1	152	230	1788	
1MB1511-3AB	160	280	1490		184	275	1788	
1MB1511-3AB	200	350	1490		230	350	1790	

6-pole		(1000 n	nin ⁻¹) IE2					
1MB1511-2BC	30	57	980		36	59	1175	
1MB1511-2CC	37	70	982		44,5	73	1180	120°C
1MB1511-2DC	45	83	985		54	87	1185	
1MB1511-2DC	55	99	985		66	104	1185	
1MB1511-3AC	75	138	988	120°C	90	143	1186	
1MB1511-3AC	90	165	988	1 1	108	168	1186	
1MB1511-3AC	110	196	988		132	205	1186	
1MB1511-3AC	132	235	988		158	240	1188	
1MB1511-3AC	160	285	988		192	290	1188	

Responsible person:

v Z. Noh' gra

Dipl. Ing. Lukáš Martinák Head of Certification Body



Date of issue: 15.07.2021

Page: 1/3



ANNEX

to Supplementary EU - Type Examination Certificate No. 3 to FTZÚ 13 ATEX 0039

Rated parameters of basic versions of electric motors Ex tb IIIC Tx°C Db (continue):

	ľ	400 V	50Hz			460 V 60Hz			
Туре	Output [kW]	Current [A]	Speed [min ⁻¹]	Тх	Output [kW]	Current [A]	Speed [min ⁻¹]	Тх	
8-pole		(750 mi	in ⁻¹) IE2			(900	min ⁻¹)		
1MB1511-2BD	18,5	38,5	730		22	38,5	880		
1MB1511-2BD	22	44	730		26,5	45	880		
1MB1511-2CD	30	59	732		36	60	880		
1MB1511-2DD	37	75	736		44,5	76	885		
1MB1511-2DD	45	89	738	120°C	54	91	885	120°C	
1MB1511-3AD	55	107	740		66	110	890		
1MB1511-3AD	75	143	738		90	147	888		
1MB1511-3AD	90	167	740		108	174	890		
1MB1511-3AD	110	205	740		132	215	888		
1MB1511-3AD	132	250	740	130°C	158	255	888	130°C	

2-pole		(3000 m	nin ⁻¹) IE3			(3600 min ⁻¹) 51 77 3560 62 92 3575 84 125 3575 101 149 3575 123 179 3582 148 215 3582		
1MB1513-2BA	45	78	2960		51	77	3560	120°C
1MB1513-2CA	55	95	2975		62	92	3575	
1MB1513-2DA	75	128	2975		84	125	3575	
1MB1513-2DA	90	152	2975	120°C	101	149	3575	
1MB1513-3AA	110	183	2982	120 0	123	179	3582	120 C
1MB1513-3AA	132	220	2982		148	215	3582	
1MB1513-3AA	160	265	2982		180	255	3582	
1MB1513-3AA	200	330	2982		224	320	3582	

4-pole		(1500 m	nin-1) IE3			(1800	min ⁻¹)	
1MB1513-2BB	37	66	1478		42,5	66	1778	
1MB1513-2BB	45	80	1478		52	81	1778	
1MB1513-2CB	55	96	1482		63	97	1782	
1MB1513-2DB	75	133	1485]	86	131	1785	
1MB1513-2DB	90	157	1485	120°C	104	158	1785	120°C
1MB1513-3AB	110	191	1488		127	191	1788	
1MB1513-3AB	132	230	1490		152	225	1788	
1MB1513-3AB	160	275	1490		184	275	1788	
1MB1513-3AB	200	340	1488		230	345	1788	
			T					

Responsible person:

Dipl. Ing. Lukáš Martinák Head of Certification Body FIZU EX

Date of issue: 15.07.2021

Page: 2/3



ANNEX

to Supplementary EU - Type Examination Certificate No. 3 to FTZÚ 13 ATEX 0039

Rated parameters of basic versions of electric motors Ex tb IIIC Tx°C Db (continue):

		400 V	50Hz	1	460 V 60Hz			
Туре	Output [kW]	Current [A]	Speed [min ⁻¹]	Tx	Output [kW]	Current [A]	Speed [min ⁻¹]	Тх
6-pole		(1000 m	nin-1) IE3			(1200	min ⁻¹)	
1MB1513-2BC	30	56	982		36	58	1180	
1MB1513-2CC	37	67	985		44,5	70	1182	
1MB1513-2DC	45	82	988		54	84	1186	
1MB1513-2DC	55	99	988		66	102	1186	
1MB1513-3AC	75	136	990	120°C	90	142	1190	120°C
1MB1513-3AC	90	161	991		108	170	1190	
1MB1513-3AC	110	199	991		132	205	1190	
1MB1513-3AC	132	245	992		158	250	1191	
1MB1513-3AC	160	295	992		192	300	1191	

8-pole		(750 m	in-1) IE3			(900	min ⁻¹)	
1MB1513-2BD	18,5	40	732		22	39,5	882	
1MB1513-2BD	22	46	732		26,5	46	882	
1MB1513-2CD	30	60	735	1	36	61	882	1
1MB1513-2DD	37	75	736		44,5	76	885	
1MB1513-2DD	45	88	738	120°C	54	90	886	120°C
1MB1513-3AD	55	106	740		66	108	888	1
1MB1513-3AD	75	144	738		90	146	888	1
1MB1513-3AD	90	168	740	1 1	108	174	890	1
1MB1513-3AD	110	205	740		132	210	888	1
1MB1513-3AD	132	250	740	130°C	158	255	888	130°C

Responsible person:

Dipl. Ing. Lukáš Martinák Head of Certification Body



Date of issue: 15.07.2021

Page: 3/3