

**(1) Type Examination Certificate****(2) Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres****Directive 2014/34/EU****(3) Type Examination Certificate Number: IEP 23 ATEX 1306X****(4) Equipment: XZL and XZG... Types, Three Phase Induction Motor****(5) Firm Name: ELK MOTOR SANAYİ VE TİCARET A.Ş.****(6) Firm Address: Yıldırım Beyazıt OSB Mah. 7. Sok. No:71/1 Çerkezköy / Tekirdağ, TÜRKİYE****(7) This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.****(8) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti., 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 category 3 equipment, which is intended for use in potentially explosive atmospheres, given in Annex II to the Council Directive 2014/34/EU. The examination and test results are recorded in confidential Report Nr: IEP.Rp.Ex.10-2652 date 08.12.2023.****(9) Compliance with Essential Health and safety requirements has been assured by compliance with;****EN IEC 60079-0: 2018, EN 60079-7 :2015, EN 60079-31: 2014****(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate.****(11) This Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.****(12) The marking of the equipment or protective system shall include the following:****II 3G Ex ec IIC T4 Gc  
II 3D Ex tc IIIC (T120°C) Dc****Responsible Person :****Nurettin Terzioglu  
Head of Certification Body****Date of Issue : 15.12.2023**





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(13) Schedule

(14) Certificate Nr: **IEP 23 ATEX 1306X**

(15) Description of Equipment:

These electric motors are made of aluminum with squirrel cage rotors, foot and/or flange mounted for horizontal and vertical mounting and with frame sizes from 63 to 315. The main features of the motors are closed type machine, frame in cast iron and aluminum material including the cooling ribs, rolling bearings, self-ventilation or forced ventilation by external fan, or without ventilation. The motors are made with interconnected compartments for motor and for terminal box. The motors and its terminal box are designed in compliance with type of protections "Ex ec" and/or "Ex tc".

The permissible ambient temperature range is -40 °C to + 60 °C. Temperature class range can be controlled by temperature sensor. Parts used in motors are available in table 2/ 3/ 4 dated 17.10.2023. Motor user manual consists of 31 pages and dated 06.11.2023. The XZL and XZG ... types, three phase induction motors are intended for use Zone 2 and Zone 22 area and IIC (included IIA, IIB) gas group and IIIC (included IIIA, IIIB) dust group in hazardous locations according to EN 60079-10-1 and EN 60079-10-2 standards.

### Electrical data:

Power	: 0,12 ~ 200 kW
Frequency	: 50 Hz or 60 Hz or 5Hz-100Hz frequency supplied with by converter
Voltage	: Up to 1000V AC
Number of Phases	: 3 ~
Ambient Temperature	: -40°C ~ +60°C
Protection Class	: IP55/IP56/IP65/IP66
Insulation Class	: F or H Class
Thermal cut-off rating	: 140°C
Pole	: 2/4/6
Duty	: S1-S9

### Mechanical data:

Bearings	: Deep groove ball bearing (-2Z, -Z, 2RS, -RS, without cover for greasing), NU, NUP, NJ
Shaft Material	: AISI 1050, AISI 1045, stainless steel (400 and 300 series)

### Housing, Flange and Terminal Box Material:

For 63-71-80 frame motors housing, terminal box, terminal box cover, DE and NDE side B3 flange, B5 flange and B14 flange materials can be use aluminum (EN AC 44300, EN AC 44500, EN AC 46100, EN AC 46200 and etc.)

For 90-100-112-132-160 frame motors housing, terminal box, terminal box cover, DE and NDE side B3 flange, B5 flange, B14 flange and foot material can be use aluminum (EN AC 44300, EN AC 44500, EN AC 46100, EN AC 46200 and etc), gray cast iron (EN GJL 180, EN GJL 200, EN GJL 220, EN GJL 250 and etc.) and nodular cast iron (EN GJS 180, EN GJS 200, EN GJS 220, EN GJS 250 and etc.).

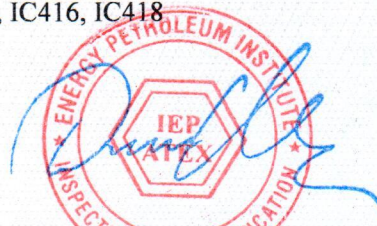
180-200-225-250 frame motors housing, terminal box, terminal box cover, DE and NDE side B3 flange, B5 flange and foot material can be use aluminum (EN AC 44300, EN AC 44500, EN AC 46100, EN AC 46200 and etc), gray cast iron (EN GJL 180, EN GJL 200, EN GJL 220, EN GJL 250 and etc.) and nodular cast iron (EN GJS 180, EN GJS 200, EN GJS 220, EN GJS 250 and etc.)

280-315 frame motors housing, terminal box, terminal box cover, DE and NDE side B3 flange, B5 flange and foot material can be use gray cast iron (EN GJL 180, EN GJL 200, EN GJL 220, EN GJL 250 and etc.) and nodular cast iron (EN GJS 180, EN GJS 200, EN GJS 220, EN GJS 250 and etc.).

Accessory	: Encoder, External Fan, Brake, Canopy, NDE Shaft Extension, Backstop
Cooling Methods	: IC410, IC411, IC416, IC418

### **Responsible Person:**

Nurettin Terzioglu  
Head of Certification Body



**IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyon Ticaret Limited Sirketi**

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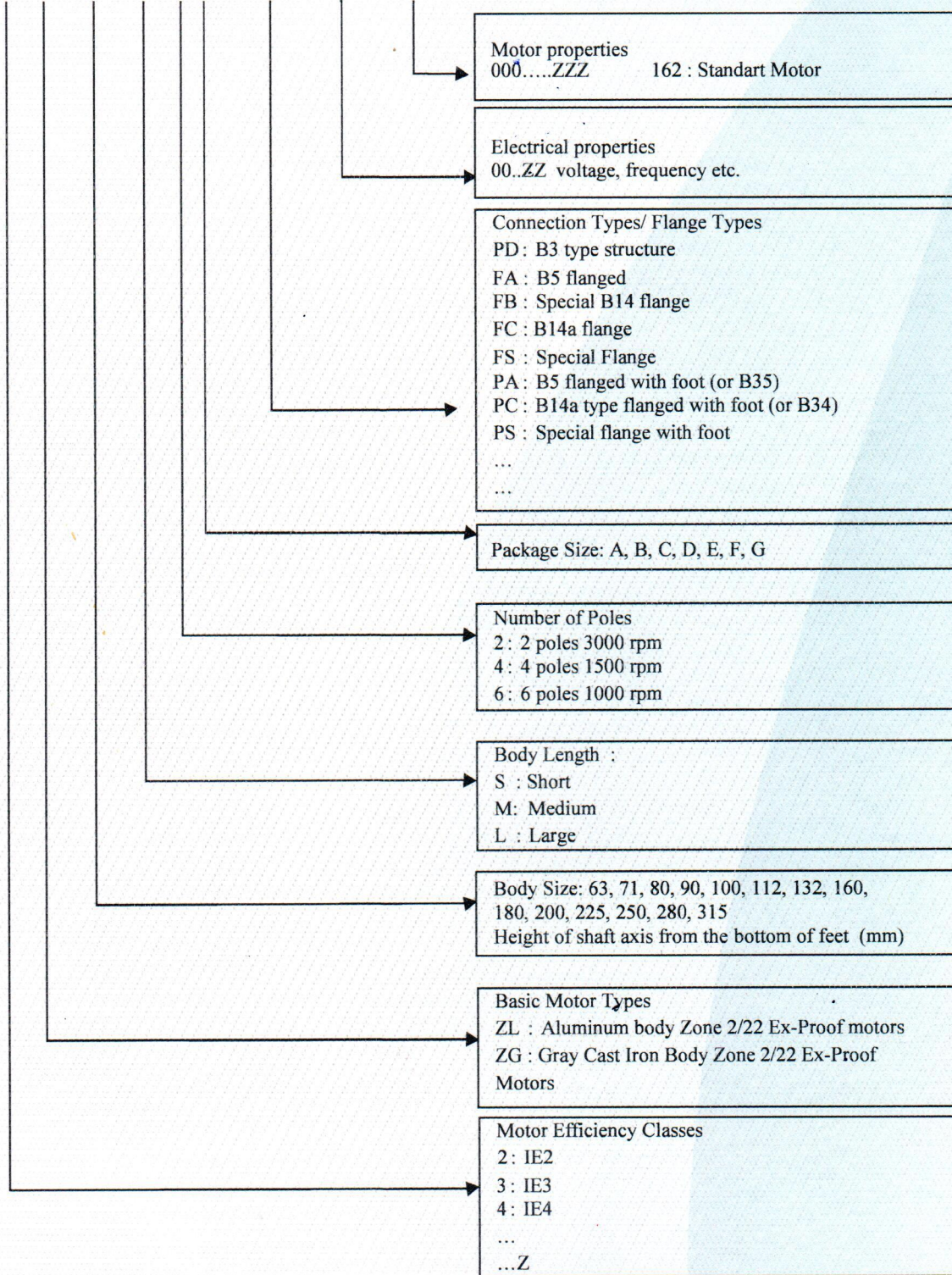




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(16) Certificate Nr: IEP 23 ATEX 1306X

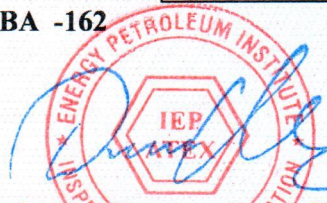
(17) Product Code System



3 ZL 160 L 4 E - FA - BA - 162

**Responsible Person:**

Nurettin Terzioğlu  
Head of Certification Body



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(18) Certificate Nr: IEP 23 ATEX 1306X

(19) Special Conditions of Safe Use:

- 19.1 For motor in execution "Ex ec", the manufacturer shall carry out the routine tests prescribed at paragraph 7.1 of the EN 60079-7 standard.
- 19.2 The motors marked "Ex ec IIC" or "Ex tc" may present a potential electrostatic charging hazard due to paint; the manufacturer's instructions shall be followed in order to minimize the risk of electrostatic discharge.
- 19.3 The manufacturer's instructions for use with a converter shall be followed.
- 19.4 Where an auxiliary apparatus is fitted that is not covered by this certificate the installer and/or user, as appropriate, must ensure that it is suitable for the conditions of use and that it does not invalidate this certification.
- 19.5 The special conditions in the Certificates of the separately certified auxiliary devices shall be conformed to.
- 19.6 The accessories used for cable entries and for the unused holes shall be suitable for the execution Ex tc or Ex ec, subject of a separate ATEX certification according to the applicable standards and shall guarantee the minimum degree of protection IP65.
- 19.7 The motors shall be provided with thermal detectors inside the stator winding. The protection circuit connected with the thermal detectors shall be calibrated to operate, in case of malfunction, stated at the user manual values.

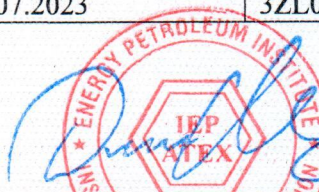
(20) Essential Health and Safety Requirements: This certificate is in the contents of standards that mentioned in item [9] It has been accepted that the XZL and XZG ... types, three phase induction motors are manufactured according to the producer instructions and the standards mentioned above.

(21) List of documentation;

Drawing Nr ;	Date ;	Drawing Nr ;	Date ;
UPE03Z-OEL063M20	20.06.2023	UPE03Z-OEL071M20	20.06.2023
UPE05Z-OEL063M40	21.06.2023	UPE07Z-OEL071M40	21.06.2023
UTA000-OEL063M00	02.06.2020	UPE15Z-OEL071M60	22.06.2023
UML00M-OEL063M00	12.03.2020	UTA000-OEL071M00	25.10.2020
UGHSMA-OEL063M00	26.02.2021	UML00M-OEL071M00	22.06.2016
UKA01A-OEL063M00	09.03.2020	UGHSMA-OEL071M00	26.02.2021
UKA02A-OEL063M00	09.03.2020	UKA01A-OEL071M00	14.02.2013
UKA03A-OEL063M00	10.03.2020	UKA02A-OEL071M00	21.12.2018
UKA04A-OEL063M00	10.03.2020	UKA03A-OEL071M00	31.01.2018
UKU32A-OEL063000	27.02.2020	UKA04A-OEL071M00	14.12.2013
UKA04L-OEL000000	20.02.2018	UKU36A-OEL071000	26.06.2012
UKKOXA*OEL063000	27.02.2020	UKL04L-OEL000000	20.02.2018
UAY000*OEL063M00	27.02.2020	UKKOXA*OEL071000	11.08.2017
3ZL063MXX-PD-AA-162	19.07.2023	UAY000*OEL071M00	11.06.2016
3ZL063MXX-PC-AA-162	19.07.2023	3ZL071MXX-PD-AA-162	19.07.2023

Responsible Person:

Nurettin Terzioglu  
Head of Certification Body



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(23) List of documentation;

3ZL063MXX-PA-AA-162	19.07.2023	3ZL071MXX-PC-AA-162	19.07.2023
-	-	3ZL071MXX-PA-AA-162	19.07.2023
UPE03Z-OEL080M20	20.06.2023	UPE03Z-OEL090L20	20.06.2023
UPE07Z-OEL080M40	21.06.2023	UPE07Z-OEL090L40	21.06.2023
UPE15Z-OEL080M60	22.06.2023	UPE15Z-OEL090L60	22.06.2023
UTA000-OEL080M00	25.09.2012	UTA000-OEL090L00	25.09.2012
UML00M-OEL080M00	22.06.2016	UML00M-OEL090L00	22.06.2016
UGHSMA-OEL080M00	26.02.2021	UGHSMA-OEL090L00	26.02.2021
UKA01A-OEL080M00	14.04.2018	UKA01A-OEL090L00	17.04.2018
UKA02A-OEL080M00	14.04.2018	UKA02A-OEL090L00	17.04.2018
UKA03A-OEL080M00	31.01.2018	UKA03A-OEL090L00	14.02.2013
UKA04A-OEL080M00	14.04.2018	UKA04A-OEL090L00	18.04.2018
UKU36A-OEL080000	26.06.2012	UKU36A-OEL090000	26.06.2012
UKL04L-OEL000000	20.02.2018	UKL04L-OEL000000	20.02.2018
UKKOXA*OEL080000	11.08.2017	UKKOXA*OEL090000	26.06.2012
UAY000*OEL080M00	11.06.2016	UAY000*OEL090L00	11.01.2016
3ZL080MXX-PD-AA-162	19.07.2023	3ZL090LXX-PD-AA-162	19.07.2023
3ZL080MXX-PC-AA-162	19.07.2023	3ZL090LXX-PC-AA-162	19.07.2023
3ZL080MXX-PA-AA-162	19.07.2023	3ZL090LXX-PA-AA-162	19.07.2023
UPE03Z-OEL0100L20	20.06.2023	UPE03Z-OEL0112L20	20.06.2023
UPE07Z-OEL0100L40	21.06.2023	UPE07Z-OEL0112M40	21.06.2023
UPE15Z-OEL0100L60	22.06.2023	UPE15Z-OEL0112M60	22.06.2023
UTA000-OEL0100L00	25.10.2012	UTA000-OEL0112M00	25.09.2012
UML00M-OEL0100L00	22.06.2016	UML00M-OEL0112M00	22.06.2016
UTS000-OEL0100L00	16.10.2012	UTS000-OEL0112M00	16.10.2012
UGHSMA-OEL0100L00	26.02.2021	UGHSMA-OEL0112M00	20.06.2016
UKA01A-OEL0100L00	14.02.2013	UKA01A-OEL0112M00	14.02.2013
UKA02A-OEL0100L00	15.11.2018	UKA02A-OEL0112M00	14.02.2013
UKA03A-OEL0100L00	14.02.2013	UKA03A-OEL0112M00	14.02.2013
UKA04A-OEL0100L00	14.02.2013	UKA04A-OEL0112M00	14.02.2013
UKU50A-OEL0100000	26.06.2012	UKU50A-OEL0112000	26.06.2012
UKL05L-OEL000000	07.05.2018	UKL05L-OEL000000	07.05.2018
UKKOXA*OEL0100000	26.06.2012	UKKOXA*OEL0112000	26.06.2012
UAY000*OEL0100L00	11.01.2016	UAY000*OEL0112M00	11.01.2016
3ZL0100LXX-PD-AA-162	19.07.2023	3ZL0112MXX-PD-BA-162	19.07.2023
3ZL0100LXX-PC-AA-162	19.07.2023	3ZL0112MXX-PC-BA-162	19.07.2023
3ZL0100LXX-PA-AA-162	19.07.2023	3ZL0112MXX-PA-BA-162	19.07.2023
UPE03Z-OEL0132M20	20.06.2023	UPE05Z-OEL0820	20.06.2023
UPE07Z-OEL0132M40	21.06.2023	UPE07Z-OEL0160L40	21.06.2023
UPE15Z-OEL0132M60	22.06.2023	UPE15Z-OEL0160L60	22.06.2023

**Responsible Person:**

Nurettin Terzioglu

Head of Certification Body



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(24) Certificate Nr: IEP 23 ATEX 1306X

(25) List of documentation;

Drawing Nr ;	Date ;	Drawing Nr ;	Date ;
UTA000-OEL0132M00	25.09.2012	UTA000-OEL0160L00	25.09.2012
UML00M-OEL0132M00	22.06.2016	UML00M-OEL0160L00	22.06.2016
UTS000-OEL0132M00	16.10.2012	UTS000-OEL0160L00	09.05.2023
UGHSMA-OEL0132M00	26.02.2021	UGHSMA-OEL0160L00	26.02.2021
UKA01A-OEL0132M00	14.02.2013	UKA01A-OEL0160L00	16.05.2018
UKA02A-OEL0132M00	14.02.2013	UKA02A-OEL0160L00	16.05.2018
UKA03A-OEL0132M00	14.02.2013	UKA04A-OEL0160L00	03.11.2021
UKA04A-OEL0132M00	14.02.2013	UKU60A-OEL0160000	13.02.2019
UKU50A-OEL0132000	26.06.2012	UKL06L-OEL000000	08.05.2018
UKL05L-OEL000000	07.05.2018	UKKOXA*OEL0160000	13.02.2019
UKKOXA*OEL0132000	26.06.2012	UAY000*OEL0160L00	29.07.2021
UAY000*OEL0132M00	11.01.2016	3ZL0160LXX-PD-BA-162	19.07.2023
3ZL0132MXX-PD-BA-162	19.07.2023	3ZL0160LXX-PC-BA-162	19.07.2023
3ZL0132MXX-PC-BA-162	19.07.2023	3ZL0160LXX-PA-BA-162	19.07.2023
3ZL0132MXX-PA-BA-162	19.07.2023	-	-
UPE05Z-OEL0180L20	20.06.2023	UPE05Z-OEL0200L20	20.06.2023
UPE07Z-OEL0180L40	21.06.2023	UPE07Z-OEL0200L40	21.06.2023
UPE15Z-OEL0180L60	22.06.2023	UPE15Z-OEL0200L60	22.06.2023
UTA000-OEL0180L00	25.09.2012	UTA000-OEL0200L00	27.12.2016
UML00M-OEL0180L00	22.06.2016	UML00M-OEL0200L00	22.06.2016
UTS000-OEL0180L00	09.05.2023	UTS000-OEL0200L00	07.11.2022
UGHSMA-OEL0180L00	28.01.2021	UGHSMA-OEL0200L00	01.12.2021
UKA01A-OEL0180L00	11.08.2021	UKA01A-OEL0200L00	12.08.2021
UKA02A-OEL0180L00	11.08.2021	UKA02A-OEL0200L00	12.08.2021
UKA04P-OEL0180L00	17.05.2021	UKA04P-OEL0200L00	17.11.2016
UKU64A-OEL0180000	13.02.2019	UKU80A-OEL0200000	27.12.2021
UKL06L-OEL000000	08.05.2018	UKL06L-OEL000000	08.05.2018
UKKOXA*OEL0180000	13.02.2019	UKKOXA*OEL0200000	27.12.2021
UAY000*OEL0180L00	02.02.2022	UAY000*OEL0200L00	05.08.2022
3ZL0180LXX-PD-BA-162	19.07.2023	EL0200LXX-PD-BA-000	05.08.2022
3ZL0180LXX-PC-BA-162	19.07.2023	EL0200LXX-PC-BA-000	05.08.2022
3ZL0180LXX-PA-BA-162	19.07.2023	EL0200LXX-PA-BA-000	05.08.2022
UPE05Z-OEL0225M20	20.06.2023	UPE05Z-OEL0250M20	20.06.2023
UPE05Z-OEL0225M40	21.06.2023	UPE05Z-OEL0250M40	21.06.2023
UPE05Z-OEL0225M60	22.06.2023	UPE05Z-OEL0250M60	22.06.2023
UTA000-OEL0225M00	21.02.2017	UTA000-OEL0250M00	02.03.2017
UML00M-OEL0225M20	02.02.2018	UML00M-OEL0250M20	02.02.2018
UML00M-OEL0225M00	21.02.2017	UML00M-OEL0250M00	27.02.2017
UTS000-OEL0225M00	07.11.2022	UTS000-OEL0250L00	07.11.2022

**Responsible Person:**

Nurettin Terzioglu  
Head of Certification Body



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(26) Certificate Nr: IEP 23 ATEX 1306X

(27) List of documentation;

Drawing Nr ;	Date ;	Drawing Nr ;	Date ;
UGVSMP-OEL0225M00	17.03.2022	UGVSMP-OEL0250M00	17.03.2022
UKA01P-OEL0225M00	20.02.2017	UKA01P-OEL0250M00	28.02.2017
UKA02P-OEL0225M00	20.02.2017	UKA02P-OEL0250M00	28.02.2017
UKA04P-OEL0225M00	20.02.2017	UKA04P-OEL0250M00	02.03.2017
UKU10P-OEL0225M00	21.02.2017	UKU10P-OEL0250000	21.02.2017
UKL08N-OEL000000	17.03.2017	UKL08N-OEL000000	17.03.2017
UKKOEP*OEL0225000	21.02.2017	UKKOEP*OEL0250000	21.02.2017
UAY00P*OEL0225M00	16.03.2022	UAY00P*OEL0250M00	16.03.2022
3ZG0225MXX-PD-B0-000	19.07.2023	3ZG0250MXX-PD-BA-162	19.07.2023
3ZG0225MXX-PC-B0-000	19.07.2023	3ZG0250MXX-PC-BA-162	19.07.2023
3ZG0225MXX-PA-B0-000	19.07.2023	3ZG0250MXX-PA-BA-162	19.07.2023
UPE05Z-OEL0280M20	20.06.2023	UPE07Z-OEL0315L20	22.06.2023
UPE07Z-OEL0280M40	21.06.2023	UPE09Z-OEL0315L60	22.06.2023
UTA000-OEL0280M00	02.08.2018	UTA000-OEL0315L00	26.10.2020
UML00M-OEL0280M20	22.05.2019	UML00M-OEL0315L00	10.07.2020
UML00M-OEL0280M00	18.08.2016	UML00M-OEL0315L20	25.08.2022
UGVSMP-OEL0280M00	29.11.2017	UGVSMP-OEL0315L00	17.07.2020
UKA01P-OEL0280M00	29.11.2017	UKA01P-OEL0315L00	09.07.2020
UKA01P-OEL0280M20	09.10.2019	UKA01P-OEL0315L20	26.04.2022
UKA02P-OEL0280M00	29.11.2017	UKA04P-OEL0315L00	21.07.2020
UKA02P-OEL0280M20	09.10.2019	UKA04P-OEL0315L20	13.06.2022
UKA04P-OEL0280M00	10.02.2018	UKU12P-OEL0315000	20.07.2020
UKA04P-OEL0280M20	10.10.2019	UKKOEP*OEL0315000	20.07.2020
UKU12P-OEL0280000	18.08.2016	UAYROP*OEL0315L00	23.12.2021
UKL10N-OEL000000	17.03.2017	UKL11N.OEL000000	20.07.2020
UKKOEP*OEL0280000	22.01.2018	3ZG0315L2X-PD-BA-162	19.07.2023
UAY00P*OEL0280M00	17.01.2018	3ZG0315LXX-PD-BA-162	19.07.2023
3ZC0280M2X-PD-BA-162	19.07.2023	3ZG0315L2X-PA-BA-162	19.07.2023
3ZG0280MXX-PC-BA-162	19.07.2023	3ZG0315LXX-PA-BA-162	19.07.2023
3ZG0280M2X-PA-BA-162	19.07.2023	-	-

For the validity of analysis type certificate, the parts that are used in the XZL and XZG... types, three phase induction motors are determined in confirmed in the part list table 2/ 3/ 4 dated 17.10.2023.

Responsible Person:

Nurettin Terzioglu  
Head of Certification Body



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