

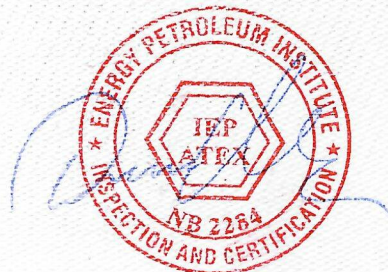
- (1) **EU-Type Examination Certificate**
- (2) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU
- (3) EU – Type Examination Certificate Number: **IEP 25 ATEX 1641X**
- (4) Product: **TG XXX Series Three Phase Induction Electric Motor**
- (5) Firm Name: **ELK MOTOR SAN. VE TİC. A.Ş.**
- (6) Firm Address: **Yıldırım Beyazıt O.S.B Mah. 7.Cadde No:71/1 Çerkezköy/ Tekirdağ, TÜRKİYE**
- (7) This product and any of acceptable variation thereto are 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., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 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 Nr: IEP.Rp.Ex.10-3298 date 09.07.2025.
- (9) Compliance with Essential Health and safety requirements has been assured by compliance with;
EN IEC 60079-0:2018, EN 60079-1:2014, 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 EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. 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 equipment or protective system shall include the following:



II 2G Ex db IIC T4 Gb
II 2D Ex tb IIC T120 °C Db

Responsible Person :

Nurettin Terzioğlu
Head of Certification Body



Date of Issue : 11.07.2025





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(13) Schedule

(14) Certificate Nr: IEP 25 ATEX 1641X

(15) Description of Equipment Protective System:

The motors of 100, 112, 132, 160, 180, 200, 225, 250, 280 types consist of an enclosure made from cast iron. They are 2, 4, and 6 pole squirrel cage motors. Motor body and terminal box have db protection type. There is a thermal cutter inside. It generally consists of rotor, stator, terminal box, shaft, cooling fan, winding and other parts. Connection is by means of terminal boxes designed to flame proof enclosure db type of protection. Separately certificated cable glands provide for power input. Parts used in motors are available in technical file section 5.1. The motor is used in zone 1 and zone 21. IP xy protection is IP 66. Motors' efficiency level has IE3/ IE4. All motors include PTC. In case of revision or addition, it must be checked and approved according to the IEC EN 60079-19 standard.

Technical Sheets:

Frame	100	112	132	160	180	200	225	250	280
Power (kW)	1,5		3	7,5	15	18,5	30		45
	2,2	2,2	4	11	18,5	22	37	37	55
		4	5,5	15	22	30	45	55	75
	3		7,5	18,5		37			90
Frequency	50/60 Hz and 5Hz-100Hz frequency supplied with by convertor								
Voltage	Up to 1000 V AC								
Protection Class	IP 66								
Insulation Class	F and H class								
Thermal cut-off rating	120 °C								
Pole and rpm	2, 4, 6 and 3000 , 1500 , 1000								
Efficiency level	IE3 / IE4								
Duty	S1 – S9								
Ambient Temperature	-20°C ~ + 60 °C / -40°C ~ + 60 °C Note: The operating ambient temperature is determined according to the parts used in the approved equipment list.								
Housing, Flanges and Terminal Box Materials	Motors housing, terminal box, terminal box cover, DE and NDE side B3 flanges, B5 flanges and foot materials can be use gray cast iron (EN-GJL-180, EN-GJL-200, EN-GJL-220, EN-GJL-250 and etc.)								
Shaft Materials	AISI 1050, AISI 1045, stainless steel (400 and 300 series)								
Bearings	Deep groove ball bearings (-2Z, -Z, 2RS, -RS, without cover for greasing, NU, NUP, NJ)								
Accessory	Encoder, External Fan, Brake, Canopy, NDE Shaft Extension, Backstop								
Cooling Method	IC410, IC411, IC416, IC418								
Sensors	PT100 on windings and bearings depends on customer request								

(IEP 25 ATEX 1641X) X means: It should be installed by authorized personnel according to the manual and EN 60079-14. Periodic maintenance should be done according to EN 60079-17.

(16) Special Conditions for Safe Use: Three-phase asynchronous motors installation details are in the user manual.

Responsible Person :

Nurettin Terzioğlu
Head of Certification Body





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(17) Certificate Nr: IEP 25 ATEX 1641X

(18) Product Code System :

3 TG 100 L 4 C PD AA 162

Motor properties 000.....ZZZ	162 : Standart Motor
Electrical properties 00..ZZ voltage, frequency etc.	
Connection Types/ Flange Types PD : B3 type structure FA : B5 flanged FC : B14 flanged PA : B5 flanged with foot (or B35) PC : B14a type flanged with foot (or B34)	
Package Size: A, B, C, D, E, F, G	
Number of Poles 2 : 2 poles 3000 rpm 4 : 4 poles 1500 rpm 6 : 6 poles 1000 rpm	
Body Length: S : Short M : Medium L : Large	
Body Size: 100, 112, 132, 160, 180, 200, 225, 250, 280 Height of shaft axis from the bottom of feet (mm)	
Motor Types TG : Gray Cast Iron Body Ex db, tb Zone 1/21 Ex-Proof Motors	
Motor Efficiency Classes 3 : IE3 4 : IE4	

Responsible Person :

Nurettin Terzioglu
Head of Certification Body



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(19) Certificate Nr: IEP 25 ATEX 1641X

(20) Essential Health and Safety Requirements:

20.1 This certificate is in the contents of standards that mentioned in item [9]. It has been accepted that the three-phase asynchronous motors are manufactured according to the producer instructions and the standards mentioned above.

20.2 At the installation and the operation of the three-phase asynchronous motors have to be observed manufacturer manual in 05.2025.

(21) List of Documentation:

Additional reports:

IEC 100 type test reports, 15 pages (dated 01.01.2025)
IEC 112 type test reports, 6 pages (dated 01.01.2025)
IEC 132 type test reports, 7 pages (dated 01.01.2025)
IEC 160 type test reports, 5 pages (dated 10.06.2025)
IEC 180 type test reports, 14 pages (dated 10.06.2025)
IEC 200 type test reports, 6 pages (dated 01.01.2025)
IEC 225 type test reports, 6 pages (dated 01.01.2025)
IEC 250 type test reports, 15 pages (dated 11.06.2025)
IEC 280 type test reports, 4 pages (dated 27.05.2025)

Other Reports;

TSE / Report Nr - Date: 40822 - 02.2025
TSE / Report Nr - Date: 55111 - 02.2025
TSE / Report Nr - Date: 108094 - 03.2025

Drawings:

IEC 100, 30 drawings in technical file
IEC 112, 32 drawings in technical file
IEC 132, 29 drawings in technical file
IEC 160, 27 drawings in technical file
IEC 180, 28 drawings in technical file
IEC 200, 27 drawings in technical file
IEC 225, 32 drawings in technical file
IEC 250, 31 drawings in technical file
IEC 280, 21 drawings in technical file

For the validity of analysis type certificate, the parts that are used in motors are confirmed in the part list table 1,2,3 in technical file.

Responsible Person :

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Head of Certification Body

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