

Supplement Nr:01
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: **IEP 22 ATEX 1075X**

(4) Product: **Three Phase Induction Electric Motor-160M/L**

(5) Firm Name: **ELK Motor San. ve Tic. A.Ş.**

(6) Firm Address: **Yıldırım Beyazıt O.S.B Mah. 7.Cadde No:71/1 Çerkezköy/Tekirdağ**

(7) This product 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., 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.10-2234-1 date 22.05.2023

(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 IIIC T120 °C Db

Responsible Person :

Nurettin Terzioglu
Head of Certification Body



Supplement Date of Issue : 23.05.2023





(13) Schedule

(14) Certificate Nr: **IEP 22 ATEX 1075X**

(15) Description of Equipment Protective System:

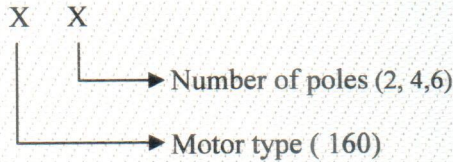
The motors of 160 types consist of an enclosure made from EN-GJL-200 cast iron. They are 2,4,6 pole squirrel cage motors. Motor body and terminal box have same Ex protection type. There is a thermal cutter inside. It generally consists of rotor, stator, terminal box, shaft, cooling fan, winding and other parts. Connection is by means of terminal boxes designed to flame proof enclosure d type of protection. Separately certificated cable glands provide for power input. The permissible ambient temperature range is -20 °C to +50 °C. Parts used in motors are available in table 1, 2 pages and date January 2022. The motor is used in zone 1 / 2 and zone 21 / 22. IP xy protection is IP 66. Motors efficiency level have IE3 / IE4. Motor user manual consists of 30 pages and date May 2023 Rev.01.

Technical Sheets:

Power	7,5 kw, 11 kw, 15 kw, 18,5 kw
Frequency	50/60 Hz and 5Hz-100Hz frequency supplied with by convertor
Voltage	Up to 1000 V AC
Ambient Temperature	-20°C ~ + 50 °C
Protection Class	IP 66
Insulation Class	F class
Thermal cut-off rating	120 °C
Pole and rpm	2, 4, 6 and 3000 , 1500 , 1000
Efficiency level	IE3 / IE4
Duty	S1 – S9

(IEP 22 ATEX 1075X) 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.

Motor code system:



(16) Special Conditions for Safe Use: 160 type three-phase asynchronous motors installation details are in the user manual.

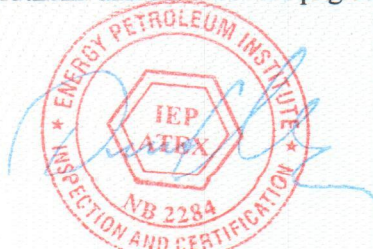
(17) Essential Health and Safety Requirements:

17.1 This certificate is in the contents of standards that mentioned in item [9]. It has been accepted that the 160 type three-phase asynchronous motors are manufactured according to the producer instructions and the standards mentioned above.

17.2 At the installation and the operation of the 160 type three-phase asynchronous motors have to be observed manufacturer manual in 05.2023 and Rev. 01 - 30 pages.

Responsible Person :

Nurettin Terzioglu
Head of Certification Body





IEP ENERGY PETROLEUM INSTITUTE

(18) Certificate Nr: **IEP 22 ATEX 1075X**

(19) List of Documentation:

Additional reports :

TSE – 145980 number, 8 pages and 30.05.2022 dated.
Type test reports 10 pages (dated 16.03.2022)

Drawing Number;	Date;
3TG160Lxx-PC-BA-000	07.12.2021
3TG160Lxx-PA-BA-000	07.12.2021
3TG160Lxx-FC-BA-000	07.12.2021
3TG160Lxx-FA-BA-000	07.12.2021
3TG160Lxx-PD-BA-000	07.12.2021
160 TIP ELK Ex-02	08.03.2022
160 TIP ELK Ex-03	08.03.2022
160 TIP ELK Ex-04	08.03.2022
160 TIP ELK Ex-05	08.03.2022
UGVSMP.0TG160L00-0000	03.11.2021
UKA01P*0TG160L00-0000	06.11.2021
UKA02P*0TG160L00-0000	06.11.2021
UML00M.0TG160L00-0000	03.11.2021
UPE11A. 0TG160L00-0000	03.11.2021
UKA03P*0TG160L00-0000	06.10.2021
UKU92P*0TG160L00-0000	06.10.2021
UAYR0P*0TG160L00-0000	12.10.2021
UAYL0P*0TG160L00-0000	12.10.2021
UKA04P*0TG160L00-0000	06.10.2021
UKK0EP*0TG160L00-0000	06.10.2021
UTA000*0EL160L00-6501	06.10.2021
160 TIP ELK Ex-06	09.03.2022
160 TIP ELK Ex-07	03.11.2021
160 TIP ELK Ex-08	09.03.2022
160 TIP ELK Ex-09	09.03.2022
160 TIP ELK Ex-10	22.09.2021
160 TIP ELK Ex-11	22.09.2021
160 TIP ELK Ex-12	22.09.2021

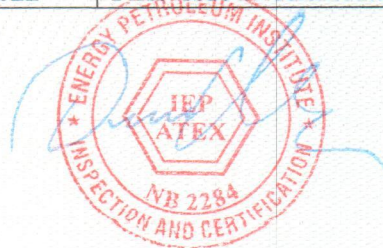
For the validity of analysis type certificate, the parts that are used in motors are confirmed in the part list table 1,2,3. and date- January 2022.

Certificate History:

Supplement Nr	Issue Date	Summary Description of Variation
01	23.05.2023	Frequency and voltage addition
00	09.06.2022	First issue of certificate

Responsible Person :

Nurettin Terzioglu
Head of Certification Body



Supplement Date of Issue : 23.05.2023

