IEP ENERGY PETROLEUM INSTITUTE

IEP ATEX

Supplement Nr: 06

(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 16 ATEX 0433X**

(4) Product: **Miksan mark; mono/three-phase asynchronous motors, type 56, 63, 71, 80, 90, 100, 112, 132**

(5) Firm Name: **MİKSAN Motor Sanayi ve Ticaret A.Ş.**

(6) Firm Address: **BOSB Bakır ve Pirinç Sanayicileri Sitesi Menekşe Cad. No:1**
Beylikdüzü – Büyükçekmece Istanbul-TÜRKİYE

(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.10-988-9 date 14.03.2025.

(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:

Ex **II 2G Ex db IIC T4 Gb**
II 2D Ex tb IIIC T120 °C Db , IP 66

Responsible Person:

Nurettin Terzioglu
Head of Certification Body

ENERGY PETROLEUM INSTITUTE * IEP ATEX * INSPECTION AND CERTIFICATION NB 2284

Supplement 06 Date of Issue: 17.03.2025

IEP Uluslararası Enerji Petrol Göz., Sertifikasyon ve Teknik Hiz. Org. Tic. Ltd. Sti.
5746/1 Sok. No:9 K:2 Bornova - IZMIR / TÜRKİYE
Tel : +90 232 431 17 45 Fax : +90 232 431 17 30 E-mail: iep@iep.com.tr Fr:45
This certificate is granted subject to the general conditions of the IEP Energy Petroleum Institute. This certificate may only be reproduced in its entirety and without any change, schedule included. You can check accuracy of this document by ***www.iep.com.tr***.

(13) Schedule

(14) Certificate Nr: **IEP 16 ATEX 0433X**

(15) Description of Equipment:

The motors of 56, 63, 71, 80, 90, 100, 112 and 132 consist of an enclosure made from Aluminum. The shaft is equipped with ball bearings. Together with the end shields the shaft forms a flameproof joint at the drive. Connection is by means of terminal box designed to flameproof enclosure db type of protection. Separately certified cable entry fittings provide for power input. The permissible ambient temperature range is -30 °C to + 40 °C. Temperature class range can be controlled by temperature sensor. All motors include PTC. Parts used in motors are available in 7-page table 3/6/9/12/14/15/18 and date 18.05.2017, 11.12.2019, 19.01.2021 and 29.03.2024. Motor user manual consists of 4 pages and date 04.03.2025.

(16) Motor Code System;

X X EX
- Exproof Motor Series
- Number of poles (2, 4, 6)
- Motor type (71)

X X EX
- Exproof Motor Series
- Number of poles (2, 4)
- Motor type (56, 63, 80, 90S, 90L, 100, 112, 132S, 132M)

(17) Special Conditions for Safe Use: 56, 63, 71, 80, 90, 100, 112 and 132 types mono/three-phase asynchronous motors installation details are in the manual.

(18) Essential Health and Safety Requirements:

18.1 This certificate is in the contents of standards that mentioned in item [9]. It has been accepted that the 56, 63, 71, 80, 90, 100, 112 and 132 type mono/three-phase asynchronous motors are manufactured according to the producer instructions and the standards mentioned above.

18.2 Installation and the operation of the 56, 63, 71, 80, 90, 100, 112 and 132 types mono/three-phase asynchronous motors have to be executed according to manufacturer manual.

18.3 (IEP 16 ATEX 0433X) X means: It should be installed by authorized personnel according to the manual. Periodic maintenance should be done according to EN 60079-17.

18.4 In case of revision or addition, it must be checked and approved according to the IEC EN 60079-19 standard.

Responsible Person:
Nurettin Terzioglu
Head of Certification Body

(19) Schedule and Certificate Nr: **IEP 16 ATEX 0433X**

Type/Poles	Speed (rpm) [50/60 Hz]	Power (kW) [50/60 Hz]	Voltage /Frequency (V/Hz)
56 / 2p	2815 / 3370	0,09 / 0,11	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
56 / 2p	2835 / 3395	0,12 / 0,14	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
56 / 2p	2800 / 3355	0,18 / 0,22	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
56 / 4p	1375 / 1650	0,06 / 0,07	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
56 / 4p	1350 / 1610	0,09 / 0,11	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
56 / 4p	1350 / 1620	0,12 / 0,14	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
63 / 2p	2785 / 3345	0,18 / 0,22	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
63 / 2p	2755 / 3310	0,25 / 0,30	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
63 / 2p	2760 / 3315	0,37 / 0,44	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
63 / 4p	1380 / 1660	0,12 / 0,14	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
63 / 4p	1330 / 1600	0,18 / 0,22	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
63 / 4p	1320 / 1585	0,25 / 0,30	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
71 / 2p	2790 / 3350	0,37 / 0,44	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
71 / 2p	2760 / 3310	0,55 / 0,66	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
71 / 4p	1420 / 1705	0,25 / 0,30	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
71 / 4p	1425 / 1710	0,37 / 0,44	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
71 / 6p	924 / 1110	0,18 / 0,22	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
71 / 6p	922 / 1105	0,25 / 0,30	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
80 / 2p	2800 / 3360	0,75 / 0,90	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
80 / 2p	2790 / 3350	1,1 / 1,32	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
80 / 4p	1410 / 1690	0,55 / 0,66	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
80 / 4p	1420 / 1715	0,75 / 0,90	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
90S / 2p	2865 / 3440	1,5 / 1,80	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
90L / 2p	2875 / 3450	2,2 / 2,64	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
90S / 4p	1420 / 1705	1,1 / 1,32	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
90L / 4p	1415 / 1700	1,5 / 1,80	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
100 / 2p	2875 / 3450	3 / 3,60	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
100 / 2p	2865 / 3440	4 / 4,80	230 and 400 V / 50 Hz , 265 and 460 V/60 Hz 400 and 690 V / 50 Hz , 460 and 800 V/60 Hz
100 / 4p	1430 / 1715	2,2 / 2,64	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
100 / 4p	1425 / 1710	3 / 3,60	230 and 400 V / 50 Hz, 265 and 460 V/60 Hz
112 / 2p	2895 / 3475	4 / 4,80	230 and 400 V / 50 Hz , 265 and 460 V/60 Hz 400 and 690 V / 50 Hz , 460 and 800 V/60 Hz
112 / 2p	2890 / 3470	5,5 / 6,60	230 and 400 V / 50 Hz , 265 and 460 V/60 Hz 400 and 690 V / 50 Hz , 460 and 800 V/60 Hz
112 / 4p	1445 / 1735	4 / 4,80	230 and 400 V / 50 Hz , 265 and 460 V/60 Hz 400 and 690 V / 50 Hz , 460 and 800 V/60 Hz
132S / 2p	2885 / 3465	5,5 / 6,60	230 and 400 V / 50 Hz , 265 and 460 V/60 Hz 400 and 690 V / 50 Hz , 460 and 800 V/60 Hz
132M / 2p	2925 / 3510	7,5 / 9,00	400 and 690 V / 50 Hz , 460 and 800 V/60 Hz
132M / 2p	2910 / 3490	11,0 / 13,2	400 and 690 V / 50 Hz , 460 and 800 V/60 Hz
132S / 4p	1455 / 1745	5,5 / 6,60	400 and 690 V / 50 Hz , 460 and 800 V/60 Hz
132M / 4p	1460 / 1750	7,5 / 9,00	400 and 690 V / 50 Hz , 460 and 800 V/60 Hz
Ta: (-30 ~ + 40) °C			

Responsible Person:
Nurettin Terzioglu
Head of Certification Body

This certificate is granted subject to the general conditions of the IEP Energy Petroleum Institute. This certificate may only be reproduced in its entirety and without any change, schedule included. You can check accuracy of this document by ***www.iep.com.tr***.

(20) Certificate Nr: **IEP 16ATEX 0433X**

(21) Drawings;

Drawing nr:	Drawing name:	Date:
56xx01	56 EX body	16.03.2021
56xx02	56 EX body	16.03.2021
56xx03	56 EX stator	18.03.2021
56xx04	56 EX shaft	16.03.2021
56xx05	56 EX rotor	18.03.2021
56xx06	56 EX cover	16.03.2021
56xx07	56 EX cover	18.03.2021
56xx08	56 EX b14 flange	18.03.2021
56xx09	56 EX b5 flange	18.03.2021
56xx10	56 EX terminal box spacer	18.03.2021
56xx11	56 EX MONO terminal box	04.12.2020
56xx12	56 EX terminal box cover	18.03.2021
56xx13	56 EX fan	18.03.2021
56xx14	56 EX cooling fan cover	18.03.2021
56xx15	56 EX flame path	19.04.2021
56xx16	56-80 Terminal Box With Ptc Connector	04.03.2025
63xx01	63 Ex frame	12.05.2017
63xx02	63 2/4 pole stator	15.04.2017
63xx03	63 ex shaft	09.05.2017
63xx04	63 2/4 pole rotor	09.05.2017
63xx05	63 ex cover	09.05.2017
63xx06	63 ex b14 flange	11.05.2017
63xx07	63 ex b5 flange	12.05.2017
63xx08	63-81 ex-proof terminal box spacer	31.10.2016
63xx09	63-112 type ex terminal box	17.02.2016
63xx10	63-112 type ex terminal box cover	17.02.2016
63xx11	63 cooling fan	02.12.2013
63xx12	63 fan cover	02.12.2013
63xx13	63 type flame path	12.05.2017
63xx14	Ex Terminal Box With Ptc Connector	29.03.2024
71xx01	71 Ex frame	15.12.2015
71xx02	71 stator	13.04.2016
71xx03	71 shaft	21.08.2015
71xx04	71/2 Ex rotor	21.08.2015
71xx05	71/4 Ex rotor	21.08.2015
71xx06	71/6 Ex rotor	21.08.2015
71xx07	71 ex end shield	02.11.2016
71xx08	71 ex b14 flange	19.08.2015
71xx09	71 ex b5 flange	19.08.2015
71xx10	Ex-proof terminal box spacer	31.10.2016
71xx11	Ex terminal box	17.02.2016
71xx12	Ex terminal box cover	17.02.2016
71xx13	71 cooling fan	29.01.2009
71xx14	71 fan cover	29.01.2009
71xx15	71 type flame path	12.05.2016

Responsible Person:

Nurettin Terzioglu
Head of Certification Body



This certificate is granted subject to the general conditions of the IEP Energy Petroleum Institute. This certificate may only be reproduced in its entirety and without any change, schedule included. You can check accuracy of this document by ***www.iep.com.tr***.

(22) Certificate Nr: **IEP 16ATEX 0433X**

(23) Drawings;

Drawing nr:	Drawing name:	Date:
71xx16	Ex Terminal Box With Ptc Connector	29.03.2024
81xx01	81 Ex frame	07.04.2016
81xx02	81 stator	12.10.2016
81xx03	81 shaft	17.03.2016
81xx04	81/2 Ex rotor	18.07.2016
81xx05	81/4 Ex rotor	18.07.2016
81xx06	81 ex end shield	04.11.2016
81xx07	81 ex b14 flange	12.04.2016
81xx08	81 ex b5 flange	12.04.2016
81xx09	Ex-proof terminal box spacer	31.10.2016
81xx10	Ex terminal box	17.02.2016
81xx11	Ex terminal box cover	17.02.2016
81xx12	81 cooling fan	07.08.2003
81xx13	81 fan cover	11.08.2009
81xx14	81 type flame path	31.05.2016
81xx15	Ex Terminal Box With Ptc Connector	29.03.2024
90xx01	90S-90L ex frame	29.03.2017
90xx02	90 2/4 pole stator	03.04.2017
90xx03	90S ex shaft	21.02.2017
90xx04	90L ex shaft	29.03.2017
90xx05	90/2 pole rotor	21.02.2017
90xx06	90/4 pole rotor	21.02.2017
90xx07	90 ex end shield	07.02.2017
90xx08	90 ex b14 flange	07.04.2017
90xx09	90 ex b5 flange	07.04.2017
90xx10	63-112 type ex terminal box	17.02.2016
90xx11	63-112 type ex terminal box cover	17.02.2016
90xx12	90 cooling fan	07.04.2017
90xx13	90 fan cover	29.05.2009
90xx14	90 type flame path	10.05.2017
90xx15	Ex Terminal Box With Ptc Connector	29.03.2024
100xx01	100 ex frame	20.04.2017
100xx02	100 2/4 pole stator	07.04.2017
100xx03	100 ex shaft	17.03.2017
100xx04	100/2 pole rotor	17.03.2017
100xx05	100/4 pole rotor	17.03.2017
100xx06	100 ex end shield	16.02.2017
100xx07	100 ex b14 flange	07.04.2017
100xx08	100 ex b5 flange	07.04.2017
100xx09	63-112 type ex terminal box	17.02.2016
100xx10	63-112 type ex terminal box cover	17.02.2016
100xx11	100-112 cooling fan	24.06.2009
100xx12	100 fan cover	24.06.2009
100xx13	100 type flame path	10.05.2017

Responsible Person:

Nurettin Terzioglu
Head of Certification Body



This certificate is granted subject to the general conditions of the IEP Energy Petroleum Institute. This certificate may only be reproduced in its entirety and without any change, schedule included. You can check accuracy of this document by ***www.iep.com.tr***.

(24) Certificate Nr: **IEP 16ATEX 0433X**

(25) Drawings;

Drawing nr:	Drawing name:	Date:
100xx14	Ex Terminal Box With Ptc Connector	29.03.2024
112xx01	112 ex frame	05.04.2017
112xx02	112 2/4 pole stator	07.04.2017
112xx03	112 ex shaft	20.03.2017
112xx04	112/2 pole rotor	17.03.2017
112xx05	112/4 pole rotor	17.03.2017
112xx06	112 ex end shield	16.02.2017
112xx07	112 ex b14 flange	07.04.2017
112xx08	112 ex b5 flange	07.04.2017
112xx09	63-112 type ex terminal box	17.02.2016
112xx10	63-112 type ex terminal box cover	17.02.2016
112xx11	100-112 cooling fan	24.06.2009
112xx12	112 fan cover	25.03.2011
112xx13	112 type flame path	10.05.2017
112xx14	Ex Terminal Box With Ptc Connector	29.03.2024
132xx01	132S/M ex frame	25.12.2019
132xx02	132 2/4 pole stator	25.12.2019
132xx03	132 S ex shaft	25.12.2019
132xx04	132 M ex shaft	25.12.2019
132xx05	132 S-M 2 pole ex shaft	25.12.2019
132xx06	132 S-M 2 pole ex shaft	25.12.2019
132xx07	132 Ex cover	25.12.2019
132xx08	132 flange	25.12.2019
132xx09	132 flange	25.12.2019
132xx10	132 type ex terminal box	25.12.2019
132xx12	132 type ex terminal box cover	25.12.2019
132xx13	132 cooling fan	25.12.2019
132xx14	132 fan cover	25.12.2019
132xx15	132 type flame path	30.12.2019
132xx16	132 type Epoxy connection	08.08.2024

For the validity of analysis type certificate, the parts that are used in motors are confirmed in the table 3/6/9/12/14/15/18 and date 18.05.2017 ,11.12.2019 and 29.03.2024.

Supplement Nr	Issue Date	Summary Description of Variation
06	17.03.2025	· Scope Addition
05	05.11.2021	· New model addition 56 Types · Update to new edition of EN IEC 60079-0:2018
04	20.05.2020	· New model addition 132 Types
03	04.09.2018	· IP Protection Class Change
02	21.08.2017	· New model addition 63, 90, 100, 112 Types · Update to new edition of EN 60079-0:2013, EN 60079-1:2014, EN 60097-31:2014
01	26.12.2016	· New model addition 71 Types
00	05.10.2016	First issue of certificate

Responsible Person:

Nurettin Terzioglu
Head of Certification Body

Supplement 06 Date of Issue: 17.03.2025

This certificate is granted subject to the general conditions of the IEP Energy Petroleum Institute. This certificate may only be reproduced in its entirety and without any change, schedule included. You can check accuracy of this document by ***www.iep.com.tr***.