IEP | ENERGY PETROLEUM INSTITUTE

IEP ATEX

(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 26 ATEX 1852X**

(4) Product: **Miksan mark; mono/three-phase asynchronous motors, "X-X-EX de" series, 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, 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.10-3662 date 20.02.2026.

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

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-7:2015, 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 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 eb 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 ★ NB 2284 ★ INSPECTION AND CERTIFICATION

Date of Issue: 06.03.2026

IEP Uluslararası Enerji Petrol Göz., Sertifikasyon ve Teknik Hiz. Org. Tic. Ltd. Sti.
Meriç Mah. 5746/1 Sok. No:9/2 Bornova - İzmir / TÜRKİYE
Tel : +90 232 431 17 45 (pbx) e-mail: iep@iep.com.tr Fr: 45
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(13) Schedule

(14) Certificate Nr: **IEP 26 ATEX 1852X**

(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 a terminal box designed to increased safety enclosure eb type of protection. Separately certificated cable glands provide for power input. The permissible ambient temperature range is -30 ºC to + 40 ºC. The temperature class range can be controlled by a temperature sensor. All motors include PTC. Parts used in motors are available in a 9-page table 3/6/9/12/15/18/21/24/34 and dated 15.09.2025. Motor user manual consists of 4 pages and is dated 15.09.2025. The motor is used in zone 1 and zone 21. IP xy protection is IP 66 (terminal box)/ IP 66 (motor body).

(16) Motor Code System;

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

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

(17) Essential Health and Safety Requirements: 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) Special Conditions for Safe Use:

18.1 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.

18.2 (IEP 26 ATEX 1852X) 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.

18.3 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

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

(19) Schedule and Certificate Nr: **IEP 26 ATEX 1852X**

(20) Technical parameters:

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

Responsible Person:
Nurettin Terzioglu
Head of Certification Body

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(21) Certificate Nr: **IEP 26 ATEX 1852X**

(22) 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	18.03.2021
56ExDE16	56-80 Ex "de" Terminal Box Cover	16.02.2018
56ExDE17	56-80 Ex "de" Terminal Box Top Gasket	16.02.2018
56ExDE18	56-80 Ex "de" Terminal Box	16.02.2018
56ExDE19	56-80 Ex "de" Terminal Box Bottom Gasket	16.02.2018
56ExDE20	56 type Ex "de" Epoxy and Flame Path Illustration	13.10.2025
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
63ExDE14	56-80 Ex "de" Terminal Box Cover	16.02.2018
63ExDE15	56-80 Ex "de" Terminal Box Bottom Gasket	16.02.2018
63ExDE16	56-80 Ex "de" Terminal Box	16.02.2018
63ExDE17	56-80 Ex "de" Terminal Box Top Gasket	16.02.2018
63ExDE18	63 type Ex "de" Epoxy and Flame Path Illustration	13.10.2025
63ExDE19	63 type Ex "de" Bolt and Stud Thread Spacing	15.10.2025
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

Responsible Person:

Nurettin Terzioglu
Head of Certification Body

(23) Certificate Nr: **IEP 26 ATEX 1852X**

(24) Drawings;

Drawing nr:	Drawing name:	Date:
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
71ExDE16	56-80 Ex "de" Terminal Box Cover	16.02.2018
71ExDE17	56-80 Ex "de" Terminal Box Bottom Gasket	16.02.2018
71ExDE18	56-80 Ex "de" Terminal Box	16.02.2018
71ExDE19	56-80 Ex "de" Terminal Box Top Gasket	16.02.2018
71ExDE20	71 Type Ex "de" Epoxy and Flame Path Illustration	13.10.2025
71ExDE21	71 Type Ex "de" Bolt and Stud Thread Spacing	13.10.2025
80xx01	80 Ex frame	07.04.2016
80xx02	80 stator	12.10.2016
80xx03	80 shaft	17.03.2016
80xx04	80/2 Ex rotor	18.07.2016
80xx05	80/4 Ex rotor	18.07.2016
80xx06	80 ex end shield	04.11.2016
80xx07	80 ex b14 flange	12.04.2016
80xx08	80 ex b5 flange	12.04.2016
80xx09	Ex-proof terminal box spacer	31.10.2016
80xx10	Ex terminal box	17.02.2016
80xx11	Ex terminal box cover	17.02.2016
80xx12	80 cooling fan	07.08.2003
80xx13	80 fan cover	11.08.2009
80xx14	80 type flame path	31.05.2016
80ExDE15	56-80 Ex "de" Terminal Box Cover	16.02.2018
80ExDE16	56-80 Ex "de" Terminal Box Bottom Gasket	16.02.2018
80ExDE17	56-80 Ex "de" Terminal Box	16.02.2018
80ExDE18	56-80 Ex "de" Terminal Box Top Gasket	16.02.2018
80ExDE19	80 type Ex "de" Epoxy and Flame Path Illustration	13.10.2025
80ExDE20	80 type Ex "de" Bolt and Stud Thread Spacing	13.10.2025
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

Responsible Person:

Nurettin Terzioglu
Head of Certification Body

(25) Certificate Nr: **IEP 26 ATEX 1852X**

(26) Drawings;

Drawing nr:	Drawing name:	Date:
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
90ExDE15	90-112 Ex "de" Terminal Box Cover	10.01.2018
90ExDE16	90-112 Ex "de" Terminal Box Top Gasket	13.01.2018
90ExDE17	90-112 Ex "de" Terminal Box	06.01.2018
90ExDE18	90-112 Ex "de" Terminal Box Bottom Gasket	11.01.2018
90ExDE19	90 Type Ex "de" Bolt and Stud Thread Spacing	13.10.2025
90ExDE20	90 Type Ex "de" Epoxy and Flame Path Illustration	-
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
100ExDE14	90-112 Ex "de" Terminal Box Cover	10.01.2018
100ExDE15	90-112 Ex "de" Terminal Box Top Gasket	13.01.2018
100ExDE16	90-112 Ex "de" Terminal Box	06.01.2018
100ExDE17	90-112 Ex "de" Terminal Box Bottom Gasket	11.01.2018
100ExDE18	100 Type Ex "de" Epoxy and Flame Path Illustration	14.10.2025
100ExDE19	100 Type Ex "de" Bolt and Stud Thread Spacing	14.10.2025
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
112ExDE14	90-112 Ex "de" Terminal Box Cover	10.01.2018
112ExDE15	90-112 Ex "de" Terminal Box Top Gasket	13.01.2018

Responsible Person:

Nurettin Terzioglu
Head of Certification Body

(27) Certificate Nr: **IEP 26 ATEX 1852X**

(28) Drawings;

Drawing nr:	Drawing name:	Date:
112ExDE16	90-112 Ex "de" Terminal Box	06.01.2018
112ExDE17	90-112 Ex "de" Terminal Box Bottom Gasket	11.01.2018
112ExDE18	112 Type Ex "de" Epoxy and Flame Path Illustration	14.10.2025
112ExDE19	112 Type Ex "de" Bolt and Stud Thread Spacing	14.10.2025
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
132ExDE16	132 Ex "de" Terminal Box Cover	21.01.2018
132ExDE17	132 Ex "de" Terminal Box Top Gasket	12.02.2018
132ExDE18	132 Ex "de" Terminal Box	16.02.2018
132ExDE19	132 Ex "de" Terminal Box Bottom Gasket	16.02.2018
132ExDE20	132 Type Ex "de" Epoxy and Flame Path Illustration	14.10.2025
132ExDE21	132 Type Ex "de" Bolt and Stud Thread Spacing	14.10.2025

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.

Responsible Person:

Nurettin Terzioglu
Head of Certification Body

ENERGY PETROLEUM INSTITUTE
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INSPECTION AND CERTIFICATION

Date of Issue: 06.03.2026

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