

## Supplement No: 4

### (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: **MİKSAN mark; mono/three-phase asynchronous motors, type 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 – Büyüçekmece İstanbul-TURKEY**

(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.10-988-7 date 15.05.2020.


(9) Compliance with Essential Health and safety requirements has been assured by compliance with;  
EN 60079-0:2013, 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 , IP 65

 II 2G Ex db IIB T4 Gb  
II 2D Ex tb IIIC T120 °C Db , IP 55

**Responsible Person:**

Nurettin Terzioğlu  
Head of Certification Body



**Supplement Date of Issue: 20.05.2020**





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## (13) Schedule

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

(15) Description of Equipment; The motors of 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. Parts used in motors are available in 7-page table 3/6/9/12/14/15/18 and date 18.05.2017 and 11.12.2019. Motor user manual consists of 4 pages and date 11.12.2019.

### Technical Sheets:

Type/Poles	Speed (rpm) [50/60 Hz]	Power (kW) [50/60 Hz]	Voltage /Frequency (V/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
132 / 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
132 / 2p	2925 / 3510	7,5 / 9,00	400 and 690 V / 50 Hz, 460 and 800 V/60 Hz
132 / 2p	2910 / 3490	11,0 / 13,2	400 and 690 V / 50 Hz, 460 and 800 V/60 Hz
132 / 4p	1455 / 1745	5,5 / 6,60	400 and 690 V / 50 Hz, 460 and 800 V/60 Hz
132 / 4p	1460 / 1750	7,5 / 9,00	400 and 690 V / 50 Hz, 460 and 800 V/60 Hz

Ta: (-30, + 40) °C

Ex Code: Type 63, 71, 80, 90, 100, 112



II 2G Ex db IIC T4 Gb  
II 2D Ex tb IIIC T120 °C Db, IP 65

Type 132



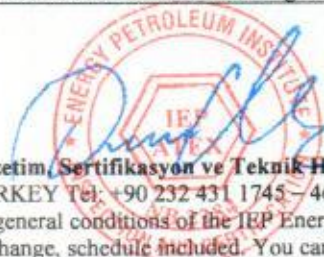
II 2G Ex db IIB T4 Gb  
II 2D Ex tb IIIC T120 °C Db, IP 55

(IEP 16 ATEX 0433X) X means: The place of use for 132 engine groups is IIB. It should be installed by authorized personnel according to the manual. Periodic maintenance should be done according to EN 60079-17.

### 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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(21) Certificate Nr: **IEP 16ATEX 0433X**

(22) Drawings;

Drawing nr:	Drawing name:	Date:
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
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
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
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

**Responsible Person:**

Nurettin Terzioglu  
Head of Certification Body



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# IEP ENERGY PETROLEUM INSTITUTE

(23) Certificate Nr: IEP 16ATEX 0433X

(24) Drawings;

Drawing nr:	Drawing name:	Date:
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
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
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

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 and 11.12.2019.

Supplement Nr	Issue Date	Summary Description of Variation
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 Date of Issue: 20.05.2020

