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 21 ATEX 0995X**

(4) Product: **Miksan mark; Permanent Circuit Capacitor Mono Phase Asynchronous Motors Types; 56M, 63M, 71M**

(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-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.10-2038 date 28.10.2021.

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

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-18:2015, 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 mb IIC T4 Gb**
II 2D Ex tb IIIC T120 °C Db , IP 65

Responsible Person:

Nurettin Terzioglu
Head of Certification Body

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

Date of Issue: 05.11.2021

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(13) Schedule

(14) Certificate Nr: **IEP 21 ATEX 0995X**

(15) Description of Equipment;

The motors consist of an enclosure made from Aluminum. The motor body and terminal junction box are Ex db type and have certificate number IEP 16 ATEX 0433. The capacitor box is Ex mb encapsulation type. There are two types of capacitors, type1 and type2. Capacitor values change with motor operating current. The shaft is equipped with ball bearings. Together with the end shields, the shaft forms a flameproof joint at the drive. Separately certified cable entry fittings provide for power input. The permissible ambient temperature range is -30 °C to + 40 °C. Motor housing IP 65, terminal connection IP 67. Parts used in motors are available in table 3/6/9 and date 19.01.2021. Motor user manual consists of 4 pages and date 01.07.2021.

(16) Motor Code System;

X X EX
- EX → Exproof Motor Series
- X → Number of poles (2, 4)
- X → Motor type (56M, 63M, 71M)

(17) Special Conditions for Safe Use: 56M, 63M, 71M types mono-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 type mono-phase asynchronous motors are manufactured according to the producer instructions and the standards mentioned above.

18.2 Installation and the operation of the 56M, 63M, 71M types mono-phase asynchronous motors have to be executed according to manufacturer manual.

(19) List of Documentation:

Additional reports;
IP protection degree and explosion test report number are TSE – 314878 / 10-16
IP protection degree and explosion test report number are TSE – 358343 / 09-17
IP protection degree and explosion test report number are TSE – 421939 / 07-18
IP protection degree and explosion test report number are TSE – 631969 / 09-21
IEP-MİKSAN test reports; total 57 pages

Responsible Person:
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Head of Certification Body

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(20) Schedule and Certificate Nr: **IEP 21 ATEX 0995X**

Type/Poles	Speed (rpm) [50/60 Hz]	Power (kW) [50/60 Hz]	Voltage /Frequency (V/Hz)
56M / 2p	2824 / 3291	0,09 / 0,11	230 V / 50 Hz, 60 Hz
56M / 2p	2793 / 3306	0,12 / 0,14	230 V / 50 Hz, 60 Hz
56M / 2p	2800 / 3355	0,18 / 0,22	230 V / 50 Hz, 60 Hz
56M / 4p	1330 / 1590	0,09 / 0,11	230 V / 50 Hz, 60 Hz
56M / 4p	1360 / 1630	0,12 / 0,14	230 V / 50 Hz, 60 Hz
63M / 2p	2790 / 3275	0,25 / 0,30	230 V / 50 Hz, 60 Hz
63M / 2p	2735 / 3285	0,37 / 0,44	230 V / 50 Hz, 60 Hz
63M / 2p	2770 / 3325	0,55 / 0,66	230 V / 50 Hz, 60 Hz
63M / 4p	1355 / 1640	0,18 / 0,22	230 V / 50 Hz, 60 Hz
63M / 4p	1355 / 1605	0,25 / 0,30	230 V / 50 Hz, 60 Hz
71M / 2p	2770 / 3325	0,55 / 0,66	230 V / 50 Hz, 60 Hz
71M / 2p	2810 / 3370	0,75 / 0,90	230 V / 50 Hz, 60 Hz
71M / 4p	1420 / 1705	0,25 / 0,30	230 V / 50 Hz, 60 Hz
71M / 4p	1420 / 1690	0,37 / 0,44	230 V / 50 Hz, 60 Hz
Ta: (-30 , + 40) °C			
(IEP 21 ATEX 0995X) X means: It should be installed by authorized personnel according to the manual. Periodic maintenance should be done according to EN 60079-17.			

(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
63xx01	63 EX Mono body	11.10.2020
63xx02	63 Mono stator	09.11.2020
63xx03	63 EX Mono shaft	27.12.2018
63xx04	63 EX Mono rotor	26.12.2018
63xx05	63 EX Mono cover	09.11.2020
63xx06	63 EX Mono B14 flange	30.11.2020

Responsible Person:
Nurettin Terzioglu
Head of Certification Body

(22) Certificate Nr: **IEP 21 ATEX 0995X**

(23) Drawings;

Drawing nr:	**Drawing name:**	**Date:**
63xx07	63 EX Mono B5 flange	30.11.2020
63xx08	63-80 EX Mono terminal box spacer	30.11.2020
63xx09	56-80 EX Mono terminal box spacer	04.12.2020
63xx10	56-80 EX Mono terminal box spacer	30.11.2020
63xx11	63 EX Mono fan	30.11.2020
63xx12	63 EX Mono cooling fan cover	30.11.2020
63xx13	63 EX Mono flame path	12.05.2017
71xx01	71 EX Mono body	02.01.2019
71xx02	71 EX Mono stator	01.12.2020
71xx03	71 EX Mono shaft	01.12.2020
71xx04	71/2 EX rotor	01.12.2020
71xx05	71/4 EX rotor	01.12.2020
71xx06	71/6 EX rotor	01.12.2020
71xx07	71 EX Mono cover	01.12.2020
71xx08	71 EX Mono B14 flange	01.12.2020
71xx09	71 EX Mono B5 flange	01.12.2020
71xx10	63-80 EX Mono terminal box spacer	30.11.2020
71xx11	56-80 EX Mono terminal box	04.12.2020
71xx12	56-80 EX Mono terminal box spacer	30.11.2020
71xx13	71 EX Mono cooling fan	01.12.2020
71xx14	71 EX Mono cooling fan cover	01.12.2020
71xx15	71 EX flame path	12.05.2016

For the validity of analysis type certificate, the parts that are used in motors are confirmed in the table 3/6/9 and date 19.01.2021.

Responsible Person:

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