

(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 24 ATEX 1351X**

(4) Product: **PYBX3 Series Three-Phase Asynchronous Motors**

(5) Firm Name: **Dinamik Motor Redüktör San. Tic. A.Ş.**

(6) Firm Address: **İkitelli OSB. Metal-İş San. Sit. 12.Blok No:41 Başakşehir-İstanbul-Türkiye**

(7) This product 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. Şti., 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. 2741 date 01.03.2024

(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 IIB T4 Gb
II 2D Ex tb IIIA T 125°C Db

Responsible Person:

Nurettin Terzioglu
Head of Certification Body



Date of Issue: 04.03.2024





(13) Schedule

(14) Certificate Nr: **IEP 24 ATEX 1351X**

(15) Description of Equipment: The asynchronous motors of series PYBX3 consist of an enclosure, terminal box, fan, rotor, stator and other parts. Body made from cast iron. There are connections via shaft front and rear bearings. Together with the end shields the shaft forms a flame proof joint at the drive. Connection is by means of terminal boxes designed to flame proof enclosure type of protection. Separately certified cable entry fittings provide for power input. The permissible ambient temperature range is -20 °C to + 40°C. This temperature range can be restricted by the terminal boxes of components selector by data sheet specifying the electrical design. Parts used in motors are available in table 1 and date 05.11.2023. Motor user manual consists of 12 pages and date January 2024. Motors have IP 55 protection degree. For installation of cable entry glands, IP 66/68 should be selected. PTC was used in motors after 4 kW. In case of revision or addition, it must be checked and approved according to the IEC EN 60079-19 standard.

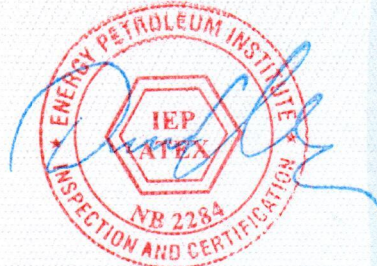
Technical Parameters: PYBX3 Series Three-Phase Asynchronous Motors

Type	Power	Frequency / Voltage
PYBX3-63 M1/M2	(0,12; 0,18; 0,25) kW	50 Hz / 400 V AC
PYBX3-71 M1/M2	(0,18; 0,25; 0,37; 0,55) kW	50 Hz / 400 V AC
PYBX3-80 M1/M2	(0,37; 0,55; 1,1) kW	50 Hz / 400 V AC
PYBX3-90 L/S	(0,75; 1,1; 1,5; 2,2) kW	50 Hz / 400 V AC
PYBX3-100 L/L1/L2	(1,5; 2,2; 3) kW	50 Hz / 400 V AC
PYBX3-112 M	(2,2; 4) kW	50 Hz / 400 V AC
PYBX3-132 M/M1/M2	(3; 4; 5,5; 7,5) kW	50 Hz / 400 V AC
PYBX3-132 S/S1/S2		50 Hz / 400 V AC
PYBX3-160 M/L	(7,5; 11; 15; 18,5) kW	50 Hz / 400 V AC
PYBX3-180 M/L	(15; 18,5; 22) kW	50 Hz / 400 V AC
PYBX3-200 L	(18,5; 22; 30; 37) kW	50 Hz / 400 V AC
PYBX3-225 S/M	(30; 37; 45) kW	50 Hz / 400 V AC
PYBX3- 250 M	(37; 55) kW	50 Hz / 400 V AC
PYBX3-280 M/S	(45; 55; 75; 90) kW	50 Hz / 400 V AC
PYBX3-315 M/L	(75; 90; 110; 132; 160; 200) kW	50 Hz / 400 V AC
PYBX3-355 M/L	(160; 200; 250; 315; 355) kW	50 Hz / 400 V AC
Ambient Temperature Ta : (-20 ~ + 40) °C , IP 55		
Ambient temperature (-20 ~ +40) °C. The insulation class of the windings is F. There is no PTC in motors less than 4 kW. However, PTC installation must be made in all motors used with the driver. Therefore, the PTC100 thermal cut-out must be set to T max: 120 °C. The number of poles is 2,4,6 and the rpm are 3000, 1500, 1000		

(IEP 24 ATEX 1351X) X Means: If the motor is used with a driver, the PTC 100 thermal cutout connection must be mounted and adjusted according to 120 °C. Installation, maintenance and periodic control must be carried out by an authorized person or authorized company in accordance with the EN 60079-17 standard and user manual.

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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(17) Any components attached of installed (terminal compartments bushings cable entry fittings connectors) have to be of technical Standard that complies with the specifications on the cover sheet and they must be covered by a separate examination certificate. The special conditions specified for the components must be complied with and the components may have to be included in the type tests.

(18) List of Documentation;

- ◆ Test Reports : TSE Report 5 pages and 25.01.2024.
- ◆ Test reports SHEX 21(0835,0836, 0837, 0838, 0839, 0840, 0842, 0843, 0844, 0845, 0846, 0847,0848, 0848,0837)
- ◆ Test report : Surface roughness and 2 page
- ◆ Equipment List : 1 page - 05.11.2023
- ◆ Routine Test Reports ; Motor Testing Report - 3 pages.
- ◆ User Manual : 12 pages

(19) List of Drawings;

Drawings No	Date	Drawings No	Date	Drawings No	Date
1PX.070.3195.1~4	12.12.2023	8PX.200.3210.1~2	02.08.2016	5PX.674.3197.1~28	02.08.2016
1PX.070.3196.7~12	12.12.2023	5PX.674.3183.1~10	02.08.2016	8PX.013.3050	30.09.2011
1PX.070.3197.9~16	12.12.2023	5PX.674.3193.1~10	02.08.2016	8PX.013.3049.1~2	10.08.2012
1PX.070.3198.9~16	12.12.2023	8PX.013.3042	30.09.2011	8PX.317.3018	12.04.2011
1PX.070.3198.9~16	12.12.2023	8PX.013.3041.1~2	30.09.2011	8PX.317.3019	09.05.2011
1PX.070.3199.7~12	12.12.2023	8PX.306.3030	09.04.2011	8PX.306.3034.2	09.04.2011
1PX.070.3200.7~12	12.12.2023	8PX.317.3034	09.04.2011	8PX.435.3013.1	15.07.2018
1PX.070.3201.10~18	12.12.2023	8PX.317.3033	09.04.2011	8PX.435.3013.2	15.07.2018
1PX.070.3211.9~16	12.12.2023	8PX.435.3009.1	15.07.2018	8PX.306.3034.1	09.04.2011
1PX.070.3212.14~26	12.12.2023	8PX.435.3009.2	15.07.2018	1PX.070.3208.5~8	02.08.2016
1PX.070.3202.11~20	12.12.2023	8PX.860.903	21.09.2011	1PX.070.3208.25~40	02.07.2020
1PX.070.3203.6~10	12.12.2023	1PX.070.3201.10~08	15.07.2020	1PX.070.3218.25~48	02.07.2020
1PX.070.3213.6~10	12.12.2023	1PX.070.3211.10~18	15.07.2020	8PX.435.3014.4	09.04.2011
1PX.070.3204.7~12	12.12.2023	8PX.860.3092.2	13.10.2020	8PX.860.3091.2	13.10.2020
1PX.070.3214.8~14	12.12.2023	8PX.034.3246.1~2	13.10.2020	8PX.034.3028.1~3	02.08.2016
1PX.070.3205.7~12	12.12.2023	5PX.671.3152.1~9	02.08.2016	5PX.671.3159.1~20	02.08.2016
1PX.070.3215.11~20	12.12.2023	5PX.671.3162.1~9	02.08.2016	5PX.671.3169.1~24	02.08.2016
1PX.070.3206.5~8	12.12.2023	8PX.200.3198.1~4	02.08.2016	8PX.200.3205.1~8	02.08.2016
1PX.070.3243.1~7	12.12.2023	8PX.200.3208.1~4	02.08.2016	8PX.200.3205.9~40	02.08.2016
1PX.070.3207.1~8	12.12.2023	5PX.674.3181.1~18	02.08.2016	8PX.200.3215.1~48	02.08.2016
1PX.070.3217.15~28	12.12.2023	5PX.674.3191.1~16	02.08.2016	5PX.674.3188.1~8	02.08.2016
1PX.070.3208.5~8	12.12.2023	8PX.013.3037	30.09.2011	5PX.674.3188.9~16	02.08.2016
1PX.070.3208.25~40	12.12.2023	8PX.013.3038	30.09.2011	5PX.674.3188.17~24	02.08.2016
1PX.070.3218.25~48	12.12.2023	8PX.435.3007	15.07.2018	5PX.674.3188.25~32	02.08.2016
1PX.070.3209.7~12	12.12.2023	8PX.306.3028	09.04.2011	5PX.674.3188.33~40	02.08.2016
1PX.070.3209.19~24	12.12.2023	1PX.070.3212.11~26	22.07.2020	5PX.674.3198.1~16	02.08.2016
1PX.070.3209.30~34	12.12.2023	1PX.070.3202.11~20	22.07.2020	5PX.674.3198.17~32	02.08.2016
1PX.070.3209.44~52	12.12.2023	8PX.860.3091.2	13.10.2020	5PX.674.3198.33~48	02.08.2016
1PX.070.3219.25~48	12.12.2023	8PX.034.3247.1~2	02.08.2016	8PX.013.3052.1~2	09.04.2011
5D354-0022-01~02	12.12.2023	5PX.671.3163.1~13	02.08.2016	8PX.013.3051.1~2	09.04.2011

Responsible Person:

Nurettin Terzioglu
Head of Certification Body



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(20) Certificate Nr: IEP 24 ATEX 1351X

(21) List of Drawings:

5D354-0023-01~02	12.12.2023	5PX.671.3153.1~10	02.08.2016	8PX.317.3009	01.04.2011
5D354-0024-01~02	12.12.2023	8PX.200.3199.1~14	02.08.2016	8PX.317.3011	01.04.2011
5D354-0025-01~02	12.12.2023	8PX.200.3209.1~4	02.08.2016	8PX.317.3008	01.04.2011
5D354-0026-01~02	12.12.2023	5PX.674.3192.1~26	02.08.2016	8PX.317.3010	01.04.2011
5D354-0027-01~02	12.12.2023	5PX.674.3182.1~20	02.08.2016	8PX.306.3035.2~3	09.04.2011
5D354-0027-03~04	12.12.2023	8PX.013.3039.1~2	30.09.2011	8PX.306.3035.1	09.04.2011
5D354-0028-01	12.12.2023	8PX.013.3040	22.11.2011	8PX.435.3014.1	09.04.2011
5D354-0028-02	12.12.2023	8PX.317.3027	08.04.2011	8PX.435.3014.2	09.04.2011
1PX.070.3196.7~12	02.08.2016	8PX.317.3028	08.04.2011	8PX.435.3014.3	09.04.2011
8PX.860.3092.2	13.10.2020	8PX.306.3029	08.04.2011	8PX.435.3014.4	09.04.2011
8PX.034.3016	13.10.2020	8PX.435.3008.1	15.07.2018	1PX.070.3209.7~12	02.07.2020
5PX.671.3013.1~6	02.08.2016	8PX.435.3008.2	15.07.2018	1PX.070.3209.19~24	20.07.2020
8PX.200.3006.1~4	02.08.2016	8PX.860.903	21.09.2011	1PX.070.3209.30~34	20.07.2020
5PX.674.3015.1~12	02.08.2016	1PX.070.3205.7~12	02.08.2020	1PX.070.3209.44~52	20.07.2020
8PX.013.3028	02.08.2016	1PX.070.3215.11~20	02.08.2020	1PX.070.3219.25~48	20.07.2020
8PX.013.3027	02.08.2016	8PX.860.3091.2	13.10.2020	8PX.034.3254.1~3	02.08.2016
8PX.435.3003	02.08.2016	8PX.034.3250.1~2	02.08.2016	5PX.671.3160.1~26	02.08.2016
8PX.306.3023	02.08.2016	5PX.671.3156.1~6	02.08.2016	5PX.671.3197.1~24	02.08.2016
8PX.860.903	09.11.2021	5PX.671.3166.1~10	02.08.2016	5PX.671.3170.1~24	02.08.2016
1PX.070.3197.9~16	02.08.2016	8PX.200.3202.1~2	02.08.2016	8PX.200.3206.1-6	02.08.2016
8PX.860.3092.2	13.10.2020	8PX.200.3202.3~6	02.08.2016	8PX.200.3206.7~12	02.08.2016
8PX.034.3017	01.04.2011	8PX.200.3212.1~4	02.08.2016	8PX.200.3206.13~18	02.08.2016
5PX.671.314.8.1-8	02.08.2016	5PX.674.3185.1~2	02.08.2016	8PX.200.3216.1~8	02.08.2016
8PX.200.319.4.1-2	02.08.2016	5PX.674.3185.3~12	02.08.2016	5PX.674.3189.1~12	02.08.2016
5PX.674.317.7.1-16	02.08.2016	5PX.674.3195.1~20	02.08.2016	5PX.674.3189.13~24	02.08.2016
8PX.013.3029	30.08.2011	8PX.013.3045.1~2	30.09.2011	5PX.674.3189.25~34	02.08.2016
8PX.013.3030	30.08.2011	8PX.013.3046	30.09.2011	5PX.674.3189.35~52	02.08.2016
8PX.300.3024	09.04.2011	8PX.317.3031.1~2	01.04.2011	5PX.674.3199.1~16	02.08.2016
8PX.435.3004	15.07.2018	8PX.306.3032	01.04.2011	5PX.674.3199.17~32	02.08.2016
8PX.864.00H	14.10.2012	8PX.435.3011.1	15.07.2018	5PX.674.3199.33~48	02.08.2016
8PX.860.903	21.09.2011	8PX.435.3011.2	15.07.2018	8PX.013.3053.1~2	30.09.2011
1PX.070.3195.1~4	02.08.2016	8PX.860.903	27.09.2011	8PX.013.3054.1~2	30.09.2011
8PX.860.3092.2	13.10.2020	1PX.070.3204.7~12	02.08.2020	8PX.317.3016	09.04.2011
8PX.034.3015	09.04.2011	1PX.070.3214.7~12	02.08.2020	8PX.317.3014	09.04.2011
5PX.671.3012.1~4	02.08.2016	8PX.860.3091.2	13.10.2020	8PX.317.3012~3013	30.09.2011
8PX.200.3005.1~2	02.08.2016	8PX.034.3249	02.08.2016	8PX.317.3015	30.09.2011
5PX.674.3014.1-3	02.08.2016	5PX.671.3155.1~6	02.08.2016	8PX.435.3015.1	09.04.2011
8PX.013.3026	30.09.2011	5PX.671.3165.1~5	02.08.2016	8PX.435.3015.2	09.04.2011
8PX.013.3025	30.08.2011	8PX.200.3201.1~4	02.08.2016	8PX.435.3015.3	09.04.2011
8PX.435.3002	21.06.2017	8PX.200.3211.1~2	02.08.2016	8PX.435.3015.4	09.04.2011
8PX.306.3022	30.06.2011	5PX.674.3184.1~12	02.08.2016	8PX.306.3036.1	09.04.2011
8PX.860.903	21.09.2011	5PX.674.3194.1~10	02.08.2016	8PX.306.3036.2	09.04.2011
1PX.070.3198.9~16	02.08.2016	8PX.013.3044	30.09.2011	8PX.860.3091.2	13.10.2020
8PX.860.3092.2	13.10.2020	8PX.013.3043.1~2	30.09.2011	5D354-0028-02	12.12.2023
8PX.034.3243.1~2	02.08.2016	8PX.317.3023	01.04.2011	5D354-0028-01	12.12.2023

Responsible Person:
Nurettin Terzioğlu
Head of Certification Body



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(22) Certificate Nr: **IEP 24 ATEX 1351X**

(23) List of Drawings;

5PX.671.3149.1 ⁸	02.08.2016	8PX.317.3024	01.04.2011	1PX.070.3209.19 ²⁴	12.12.2023
8PX.200.3195.1 ⁴	02.08.2016	8PX.306.3031	01.04.2011	1PX.070.3209.30 ³⁴	12.12.2023
5PX.674.3178.1 ¹⁶	02.08.2016	8PX.435.3010.2	11.07.2018	1PX.070.3209.44 ⁵²	12.12.2023
8PX.013.3031	30.09.2011	8PX.435.3010.1	15.07.2018	1PX.070.3219.25 ⁴⁸	12.12.2023
8PX.013.3032	30.09.2011	8PX.860.903	27.09.2011	1PX.070.3209.7 ¹²	12.12.2023
8PX.360.3025	30.09.2011	1PX.070.3206.5 ⁸	02.08.2016	1PX.070.3208.25 ⁴⁰	12.12.2023
8PX.435.3005	15.07.2018	1PX.070.3243.1 ⁵	02.08.2016	1PX.070.3218.25 ⁴⁸	12.12.2023
8PX.860.903	21.09.2011	8PX.860.3091.2	13.10.2020	1PX.070.3208.5 ⁸	12.12.2023
1PX.070.3199.7 ¹²	02.08.2016	8PX.034.3251	02.08.2016	1PX.070.3217.15 ²⁸	12.12.2023
8PX.860.3092.2	13.10.2020	5PX.671.3157.1 ⁴	02.08.2016	1PX.070.3207.1 ⁸	12.12.2023
8PX.034.3244	02.08.2016	5PX.671.3194.1 ⁵	02.08.2016	1PX.070.3206.5 ⁸	12.12.2023
5PX.671.3150.1 ⁶	02.08.2016	8PX.200.3203.1 ²	02.08.2016	1PX.070.3243.1 ⁷	12.12.2023
8PX.200.3196.1 ²	02.08.2016	8PX.200.3203.3 ⁶	02.08.2016	1PX.070.3205.7 ¹²	12.12.2023
5PX.674.3179.1 ¹²	02.08.2016	8PX.200.3213.1 ²	02.08.2016	1PX.070.3215.11 ²⁰	12.12.2023
8PX.013.3033	30.09.2011	5PX.674.3186.1 ⁶	02.08.2016	1PX.070.3204.7 ¹²	12.12.2023
8PX.013.3034	30.09.2011	5PX.674.3196.1 ¹⁰	02.08.2016	1PX.070.3214.8 ¹²	12.12.2023
8PX.306.3026	30.09.2011	8PX.013.3048	30.09.2011	1PX.070.3203.6 ¹⁰	12.12.2023
8PX.435.3006	30.09.2011	8PX.013.3047.1 ²	30.09.2011	1PX.070.3213.6 ¹⁰	12.12.2023
8PX.860.903	21.09.2011	8PX.317.3017	01.04.2011	1PX.070.3212.14 ²⁶	12.12.2023
1PX.070.3200.5 ¹⁸	02.08.2016	8PX.317.3018	12.04.2011	1PX.070.3202.11 ²⁰	12.12.2023
8PX.860.3092.2	13.10.2020	8PX.306.3033	01.04.2011	1PX.070.3201.10 ¹⁸	12.12.2023
8PX.034.3245	02.08.2016	8PX.435.3012.1	15.07.2018	1PX.070.3211.9 ¹⁶	12.12.2023
5PX.671.3151.1 ⁴	02.08.2016	8PX.435.3012.2	15.07.2018	1PX.070.3200.5 ⁸	12.12.2023
8PX.200.3197.1 ²	02.08.2016	8PX.860.903	27.09.2011	1PX.070.3199.7 ¹²	12.12.2023
5PX.674.3180.1 ⁸	02.08.2016	1PX.070.3207.1 ⁸	02.08.2016	1PX.070.3198.9 ¹⁶	12.12.2023
8PX.013.3035	30.09.2011	1PX.070.3217.15 ²⁸	02.08.2016	1PX.070.3197.9 ¹⁶	12.12.2023
8PX.013.3036	30.09.2011	8PX.860.3091.2	13.10.2020	1PX.070.3196.7 ¹²	12.12.2023
8PX.306.3027	30.06.2011	8PX.860.903	27.09.2011	1PX.070.3195.1 ⁴	12.12.2023
8PX.435.3006	30.09.2011	8PX.034.3252.1 ²	02.08.2016	5D354-0027-03 ⁰⁴	12.12.2023
1PX.070.3203.6 ¹⁰	02.08.2020	5PX.671.3158.1 ⁸	02.08.2016	5D354-0027-01 ⁰²	12.12.2023
1PX.070.3213.6 ¹⁰	02.08.2020	5PX.671.3168.1 ¹⁴	02.08.2016	5D354-0026-01 ⁰²	12.12.2023
8PX.860.3091.2	13.10.2020	8PX.200.3204.1 ⁴	02.08.2016	5D354-0025-01 ⁰²	12.12.2023
8PX.034.3248	02.08.2016	8PX.200.3204.5 ⁸	02.08.2016	5D354-0024-01 ⁰²	12.12.2023
5PX.671.3154.1 ⁵	02.08.2016	8PX.200.3214.1 ⁴	02.08.2016	5D354-0023-01 ⁰²	12.12.2023
5PX.671.3164.1 ⁵	02.08.2016	5PX.674.3187.1 ⁴	02.08.2016	5D354-0022-01 ⁰²	12.12.2023
8PX.200.3200.1 ²	02.08.2016	5PX.674.3187.5 ¹⁴	02.08.2016	

For the validity of analysis type certificate, the parts that are used in motors are confirmed in the table 1 and date 05.11.2023.

Responsible Person:
Nurettin Terzioglu
Head of Certification Body



Date of Issue: 04.03.2024



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