



CNEX-GLOBAL

[1] EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 2014/34/EU**



[3] EU-Type Examination Certificate Number: **CNEX 25 ATEX 0028 X Issue 0**

[4] Equipment : **Flameproof Three-Phase Induction Motor model YBX3-80...355**

[5] Manufacturer : **Shandong Huali Electric Motor Group Co., Ltd.**

[6] Address : **No. 9 Rongchang Road, Rongcheng City, Shandong Province, China**

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] CNEX-Global B.V., Notified Body number 2614, in accordance with Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **P24129IA-CS**.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-1:2014

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to specific conditions for use specified in the schedule to this certificate.

[11] This EU – Type examination certificate relates only to the design of the specified equipment or protective system. Further requirements of the Directive apply to the manufacture and supply of this equipment or protective system. 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

Certification officer : Hou Yandong

Signature:

Date of issue : 2025-09-26

Certification Body: CNEX-Global B.V., Utrechtseweg 310-B42, 6812 AR Arnhem, The Netherlands

This certificate may only be reproduced in its entirety and without any change, including schedule

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[15] Description of equipment:

Type YBX3 motor is three-phase, induction motor. It comprises a main enclosure, a main terminal box (frame 80-355). The protection type for both the main enclosure and terminal box is Ex d (flameproof). The enclosure material for frame 80-180 is grey cast iron, and for frame 200-355 is Q235B. The cooling method is IC411. The motors are for DOL operation only.

Nomenclature for motor model YBX3-132S1-2

Y	-	Asynchronous motor
B	-	Flameproof
X	-	High efficiency
3	-	Third design
132	-	shaft height (80, 90, 100, 112, 132, 160, 180, 200, 225, 250, 280, 315, 355)
S	-	frame length (M=medium frame, L=long frame, S=short frame)
1	-	Core length code (1= short core, 2= long core (No annotation at single power level)
2	-	Number of poles: (2, 4, 6, 8, 10)

Motor models covered:

The motor models that are covered by this certificate are detailed in Annex A of this certificate and in the Test Report Cover document. (ref. P24129IA-CS).

Electrical Data:

Rated power : 0.18 kW to 315 kW

Rated voltage: for YBX3-80...100: 200V, 220V, 230V, 240V, 290V, 380V, 400V, 415V, 440V, 480V, 500V, 525V, 575V, 660V, 690V

for YBX3-112, YBX3-132 (for power ≤3kW): 200V, 220V, 230V, 240V, 290V, 380V, 400V, 415V, 440V, 480V, 500V, 525V, 575V, 660V, 690V, 720V, 1140V, 220/380V, 230/400V, 240/415V, 380/660V, 400/690V, 415/720V, 660/1140V

for YBX3-112, YBX3-132 (for power >3kW): 230V, 380V, 400V, 415V, 440V, 460V, 480V, 500V, 525V, 575V, 660V, 690V, 720V, 1140V, 380/660V, 400/690V, 415/720V, 660/1140V

for YBX3-160...355: 230V, 380V, 400V, 415V, 440V, 460V, 480V, 500V, 525V, 575V, 660V, 690V, 720V, 1140V, 380/660V, 400/690V, 415/720V, 660/1140V

Rated frequency: 50 Hz / 60 Hz

For details per motor model, see Annex A.

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Mounting Instructions:

See manufacturer's instructions.

Installation Instructions:

All cable entry devices and blanking elements shall be certified for use in explosive gas atmospheres, with the same IP rating as the motor, suitable for the conditions of use and correctly installed. Unused apertures shall be closed with suitable certified blanking elements. See manufacturer's instructions.

Routine tests:

Detailed in the Test Report Cover document. (P24129IA-CS).

[16] Descriptive Documents:

Detailed in the Test Report Cover document. (P24129IA-CS).

[17] Specific Conditions for Use:

The ambient temperature range is limited to -15 °C ... +40 °C.

For repair of the flameproof joints due regard must be given to the structural specifications provided by the manufacturer. Repair in compliance with the values in Tables 3 and 4 of EN 60079-1 is not allowed.

Suitable heat-resisting cables, rated minimum +105 °C, must be applied for mains supply.

Use only motor cover bolts with minimum yield stress of 640 N/mm².

[18] Essential Health and Safety Requirements:

The Essential Health and Safety Requirements are covered by the standards listed at item [9].

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

Additional Information:

The enclosure of the explosion proof three-phase induction motor models YBX3 successfully passed the tests for the Ingress Protection Level IP66 to EN 60529.

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Annex A – Motor models covered by this certificate:

Frame size	No. of poles	Power [kW]	Frequency [Hz]	Model numbers
80	2	0.75	50/60	YBX3-80M1-2
	2	1.1	50/60	YBX3-80M2-2
	4	0.55	50/60	YBX3-80M1-4
	4	0.75	50/60	YBX3-80M2-4
	6	0.37	50/60	YBX3-80M1-6
	6	0.55	50/60	YBX3-80M2-6
	8	0.18	50/60	YBX3-80M1-8
	8	0.25	50/60	YBX3-80M2-8
90	2	1.5	50/60	YBX3-90S-2
	2	2.2	50/60	YBX3-90L-2
	4	1.1	50/60	YBX3-90S-4
	4	1.5	50/60	YBX3-90L-4
	6	0.75	50/60	YBX3-90S-6
	6	1.1	50/60	YBX3-90L-6
	8	0.37	50/60	YBX3-90S-8
	8	0.55	50/60	YBX3-90L-8
100	2	3	50/60	YBX3-100L-2
	4	2.2	50/60	YBX3-100L1-4
	4	3	50/60	YBX3-100L2-4
	6	1.5	50/60	YBX3-100L-6
	8	0.75	50/60	YBX3-100L1-8
	8	1.1	50/60	YBX3-100L2-8
112	2	4	50/60	YBX3-112M-2
	4	4	50/60	YBX3-112M-4
	6	2.2	50/60	YBX3-112M-6
	8	1.5	50/60	YBX3-112M-8
132	2	5.5	50/60	YBX3-132S1-2
	2	7.5	50/60	YBX3-132S2-2
	4	5.5	50/60	YBX3-132S-4
	4	7.5	50/60	YBX3-132M-4
	6	3	50/60	YBX3-132S-6
	6	4	50/60	YBX3-132M1-6
	6	5.5	50/60	YBX3-132M2-6
	8	2.2	50/60	YBX3-132S-8

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	8	3	50/60	YBX3-132M-8
160	2	11	50/60	YBX3-160M1-2
	2	15	50/60	YBX3-160M2-2
	2	18.5	50/60	YBX3-160L-2
	4	11	50/60	YBX3-160M-4
	4	15	50/60	YBX3-160L-4
	6	7.5	50/60	YBX3-160M-6
	6	11	50/60	YBX3-160L-6
	8	4	50/60	YBX3-160M1-8
	8	5.5	50/60	YBX3-160M2-8
	8	7.5	50/60	YBX3-160L-8
180	2	22	50/60	YBX3-180M-2
	4	18.5	50/60	YBX3-180M-4
	4	22	50/60	YBX3-180L-4
	6	15	50/60	YBX3-180L-6
	8	11	50/60	YBX3-180L-8
200	2	30	50/60	YBX3-200L1-2
	2	37	50/60	YBX3-200L2-2
	4	30	50/60	YBX3-200L-4
	6	18.5	50/60	YBX3-200L1-6
	6	22	50/60	YBX3-200L2-6
	8	15	50/60	YBX3-200L-8
225	2	45	50/60	YBX3-225M-2
	4	37	50/60	YBX3-225S-4
	4	45	50/60	YBX3-225M-4
	6	30	50/60	YBX3-225M-6
	8	18.5	50/60	YBX3-225S-8
	8	22	50/60	YBX3-225M-8
250	2	55	50/60	YBX3-250M-2
	4	55	50/60	YBX3-250M-4
	6	37	50/60	YBX3-250M-6
	8	30	50/60	YBX3-250M-8
280	2	75	50/60	YBX3-280S-2
	2	90	50/60	YBX3-280M-2
	4	75	50/60	YBX3-280S-4
	4	90	50/60	YBX3-280M-4
	6	45	50/60	YBX3-280S-6
	6	55	50/60	YBX3-280M-6
	8	37	50/60	YBX3-280S-8

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	8	45	50/60	YBX3-280M-8
315	2	110	50/60	YBX3-315S-2
	2	132	50/60	YBX3-315M-2
	2	160	50/60	YBX3-315L1-2
	2	185	50/60	YBX3-315L-2
	2	200	50/60	YBX3-315L2-2
	4	110	50/60	YBX3-315S-4
	4	132	50/60	YBX3-315M-4
	4	160	50/60	YBX3-315L1-4
	4	185	50/60	YBX3-315L-4
	4	200	50/60	YBX3-315L2-4
	6	75	50/60	YBX3-315S-6
	6	90	50/60	YBX3-315M-6
	6	110	50/60	YBX3-315L1-6
	6	132	50/60	YBX3-315L2-6
	8	55	50/60	YBX3-315S-8
	8	75	50/60	YBX3-315M-8
	8	90	50/60	YBX3-315L1-8
	8	110	50/60	YBX3-315L2-8
	10	45	50/60	YBX3-315S-10
	10	55	50/60	YBX3-315M-10
	10	75	50/60	YBX3-315L1-10
	10	90	50/60	YBX3-315L2-10
355	2	185	50/60	YBX3-355S1-2
	2	200	50/60	YBX3-355S2-2
	2	220	50/60	YBX3-355M1-2
	2	250	50/60	YBX3-355M2-2
	2	280	50/60	YBX3-355L1-2
	2	315	50/60	YBX3-355L2-2
	4	185	50/60	YBX3-355S1-4
	4	200	50/60	YBX3-355S2-4
	4	220	50/60	YBX3-355M1-4
	4	250	50/60	YBX3-355M2-4
	4	280	50/60	YBX3-355L1-4
	4	315	50/60	YBX3-355L2-4
	6	160	50/60	YBX3-355S-6
	6	185	50/60	YBX3-355M1-6
	6	200	50/60	YBX3-355M2-6
	6	220	50/60	YBX3-355L1-6



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6	250	50/60	YBX3-355L2-6
8	132	50/60	YBX3-355S-8
8	160	50/60	YBX3-355M-8
8	185	50/60	YBX3-355L1-8
8	200	50/60	YBX3-355L2-8
10	90	50/60	YBX3-355S-10
10	110	50/60	YBX3-355M1-10
10	132	50/60	YBX3-355M2-10
10	160	50/60	YBX3-355L1-10
10	185	50/60	YBX3-355L2-10