



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx CNEX 25.0028X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 0	
Date of Issue:	2025-09-26		
Applicant:	Shandong Huali Electric Motor Group Co., Ltd. No. 9 Rongchang Road, Rongcheng City, Shandong Province China		
Equipment:	Flameproof Three-Phase Induction Motor model YBX3-80~355		
Optional accessory:			
Type of Protection:	Ex db		
Marking:	Ex db IIC T4 Gb		

Approved for issue on behalf of the IECEx
Certification Body:

Hou Yandong

Position:

Certification Officer

Signature:
(for printed version)

Date:
(for printed version)

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CNEX-Global B.V.
Utrechtseweg 310-B42,
6812 AR ARNHEM
Netherlands





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Certificate No.: **IECEx CNEX 25.0028X**

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Date of issue: 2025-09-26

Issue No: 0

Manufacturer: **Shandong Huali Electric Motor Group Co., Ltd.**
No. 9 Rongchang Road,
Rongcheng City, Shandong Province
China

Manufacturing
locations: **Shandong Huali Electric Motor
Group Co., Ltd.**
No. 9 Rongchang Road,
Rongcheng City, Shandong Province
China

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[NL/CNEX/ExTR25.0028/00](#)

Quality Assessment Report:

[NL/CNEX/QAR25.0002/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

For nomenclature and other information, please see the Annex to this certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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 IEC 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.



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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 IEC 60529.

Annex:

[P24129IA-CCA certificate IECEx CNEX 25.0028X issue 0 Annex_1.pdf](#)



Annex to Certificate IECEx CNEX 25.0028X Issue 0

Equipment or Protective System: **Flameproof Three-Phase Induction Motors
Model YBX3-80~355**

Applicant: **Shandong Huali Electric Motor Group Co., Ltd.**

Address: **No. 9 Rongchang Road, Rongcheng City, Shandong Province,
264300, China**

Nomenclature for motor model: YBX3 -132S1-2:

Y	-	Asynchronous motor
B	-	Flameproof
X	-	High efficiency
3	-	The 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)

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).

Temperature class:

The assigned temperature class is T4, unless specified otherwise in Annex A.

Electrical Data:

Rated power: 0.18~315kW

Rated voltage for YBX3-80...100:

200V, 220V, 230V, 240V, 290V, 380V, 400V, 415V, 440V, 480V, 500V, 525V, 575V, 660V, 690V, 50&60Hz

Rated voltage 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, 50&60Hz

Rated voltage 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, 50&60Hz

Rated voltage 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, 50&60Hz

For rated power, frequency and ambient temperature range per motor model, see Annex A.

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

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Annex to Certificate IECEx CNEX 25.0028X Issue 0

Descriptive Documents:

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

Mounting Instructions:

See manufacturer's instructions.

Installation Instructions:

All cable entry devices and blanking elements shall be certified to valid standards 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:

Routine overpressure tests on enclosure parts are detailed in the Test Report Cover Sheet.
(ref. P24129IA-CS).

Annex to Certificate IECEx CNEX 25.0028X Issue 0

Annex A.

Overview of motor specifications per motor model 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
	8	45	50/60	YBX3-280M-8

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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
355	10	75	50/60	YBX3-315L1-10
	10	90	50/60	YBX3-315L2-10
	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
	6	250	50/60	YBX3-355L2-6
	8	132	50/60	YBX3-355S-8

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	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

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