

[1] **EU - TYPE EXAMINATION CERTIFICATE**
[2] **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU

- [3] Type Examination Certificate Number ACE26ATEX038X Rev00
- [4] Product Increased Safety VVVF Motor Model: YJH423-**Series
- [5] Manufacturer CRRC YONGJI Electric Co.,Ltd
- [6] Address No.18 Dianji Street, Yongji City, Shanxi Province 044502, P.R.China
- [7] This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [8] Advanced Consulting and Engineering Iberia SL (A.C.&E. Iberia S.L.), Notified body Accreditation nº: NB3024 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and 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 the confidential Report nº. EX_GEN027_26_26-1342, EX_EXE010_26_25-1342
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 : Explosive atmospheres — Part 0: Equipment — General requirements
EN 60079-7: 2015/A1:2018: Explosive atmospheres - Part 7: Equipment protection by increased safety 'e'
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the point 17 of This certificate.
- [11] This Type Examination Certificate relates only to the design and construction of the specified product. 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 eb IIC T3 Gb or II 3G Ex ec IIC T3 Gc

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Date: 31/07/2026



Advanced Consulting and Engineering

Iberia SL

Notified Body No NB3024

Matteo Marconi, CEO

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SCHEDULE

[14]

EU- Type Examination Certificate No: ACE26ATEX038X Rev00

[15] Description of equipment

1. Description

YJH423-** series motors are suitable for driving and controlling voltage-source inverter systems. They can be used to drive drilling rig drawworks, mud pumps, rotary tables, etc. They can also serve as driving motors for other variable-frequency speed control devices.

The series motors are cooled by forced ventilation (IC06), with their own blower. Cooling air can enter the motors from the top or side. The blower motors are IECEx/ATEX certified flameproof three-phase squirrel cage induction motors with 2 poles.

Two trace heating cable systems are installed in each motor to prevent the motor winding from moisture.

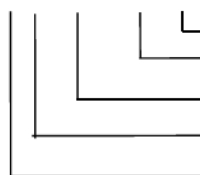
Two PT100 temperature sensors are mounted on each phase winding. PT100 temperature sensors are installed at both ends of each motor bearing.

Explosion-proof terminals are installed in the junction box. PT100 cable, lockout switch cable, wind pressure switch cable and blower motor cable are introduced into the junction box and connected to the terminals.

IECEx/ATEX certified cable glands, stopping plugs and connectors are mounted on the junction box. The IP code of main machine is IP44 and the IP code of junction box is IP56. This equipment features reliable internal and external earthing.

2. Model Nomenclature

Y J H423- * *



Serial number: A, B, C

Power(kW): 300, 355, 400, 450, 500, 600, 720, 800, 860, 900,1000,1120,858/1200

Height of center

AC Motor

YongJi

This report covers the following models:

YJH423-1200A (or YJ243C), YJH423-1200B, YJH423-1120A (or YJ243E), YJH423-1000A, YJH423-900A, YJH423-860A, YJH423-800A, YJH423-720A, YJH423-600C, YJH423-600B, YJH423-600A, YJH423-500A, YJH423-450A, YJH423-400B, YJH423-400A, YJH423-300A, YJH423-355A.

3. Motor parameters

3.1 YJH423-**** Series Motor Parameter

Model ③	Power (kW)	Voltage (V)	Speed (r/min)	Constant torque operating range (r/min)	Constant power operating range (r/min)	Max speed (r/min)
YJH423-300A	300	380, 400, 575, 600, 660, 690	661	0~659	659~1280	2600
YJH423-355A	355	380, 400, 575, 600, 660, 690	661	0~661	661~1280	2600

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YJH423-400A	400	380, 400, 575, 600, 660, 690	661	0~661	661~1280	2600
YJH423-400B	400	380, 400, 575, 600, 660, 690	460	0~460	460~900	2600
YJH423-450A	450	380, 400, 575, 600, 660, 690	571	0~571	571~1021	2600
YJH423-500A	500	380, 400, 575, 600, 660, 690	540	0~540	540~1080	2600
YJH423-600A	600	575, 600, 660, 690	1000	0~1000	1000~1730	2600
YJH423-600B	600	575, 600, 660, 690	661	0~661	661~1240	2600
YJH423-600C	600	575, 600, 660, 690	400	0~400	400~800	2600
YJH423-720A	720	575, 600, 660, 690	603	0~603	603~1200	2600
YJH423-800A	800	575, 600, 660, 690	744	0~744	744~1485	2600
YJH423-860A	860	575, 587, 600, 660, 690	800	0~800	800~1600	2300
YJH423-900A	900	575, 600, 660, 690	1102	0~1102	1102~1500	2600
YJH423-1000A	1000	575, 600, 660, 690	803	0~803	803~1387	2600
YJH423-1120A or YJ243E ①	1120	575, 577, 600, 660, 690	900	0~900	900~1500	3000
YJH423-1200A or YJ243C ②	858	575, 587, 600, 660, 690	800	0~800	800~1800	3000
	1200		1000	0~1000	1000~1500	3000
YJH423-1200B	1200	575, 600, 660, 690	850	0~850	850~2200	3000

Note ①: Motors of models YJH423-1120A and YJ243E are identical. The different model designations are only for market demand purposes.

Note ②: Motors of models YJH423-1200A and YJ243C are identical. The different model designations are only for market demand purposes. Under the condition that the iron core, winding and mechanical structure remain unchanged, the electromagnetic load and heat dissipation margin are designed to be sufficient, enabling the motor to achieve double-rated power output under different rated operating conditions.

Note ③: Each model is available with two junction box positions: left side or right side. The direction of junction box is clearly indicated on the nameplate of the equipment.

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3.2 YJH423-**** Series Motor Electrical Parameters according to duty type

YJH423-**** Series motors can operate under the S1 or S9 working conditions.

S1: S1 continuous operation mode refers to running under a constant load until reaching the thermal stability state.

S9: In the non-periodic load and speed variation working mode of S9, the load and speed change non-periodically within the allowable range, including frequent over loading.

Motor model	Duty Type	Rated power, kW	Rated speed, (r/min)	Speed range at constant torque(r/min)	Speed range at constant power(r/min)	Speed range at power reduction (r/min)
YJH423-1200A	S1(Continuous)	1200	1000	0~1000	1000~1500	1500~3000
	S1(Continuous)	858	800	0~800	800-1800	1800-3000
	S9(120s on/90s off)	1044	800	0~800	800-1480	1480-3000
YJH423-1200B	S1(Continuous)	1200	850	0~850	850-2200	2200-3000
	S9(120s on/90s off)	1460	850	0~850	850-1800	1800-3000
YJH423-1120A	S1(Continuous)	1120	900	0-900	900-1780	1780-3000
	S9(120s on/90s off)	1365	800	0-800	800-1450	1450-3000
YJH423-1000A	S1(Continuous)	1000	803	0-803	803-1515	1515-2600
	S9(120s on/90s off)	1216	803	0-803	803-1363	1363-2600
YJH423-900A	S1(Continuous)	900	1102	0-1102	1102-1500	1500-2600
	S9(120s on/90s off)	1095	1102	0-1102	1102-1500	1500-2600
YJH423-860A	S1(Continuous)	860	800	0~800	800-1600	1600-2300
	S9(120s on/90s off)	1046	800	0~800	800-1220	1220-2300
YJH423-800A	S1(Continuous)	800	744	0-744	744-1485	1485-2600
	S9(120s on/90s off)	974	744	0-744	744-1205	1205-2600
YJH423-720A	S1(Continuous)	720	603	0-603	603-1200	1200-2600
	S9(120s on/90s off)	876	603	0-603	603-915	915-2600
YJH423-600C	S1(Continuous)	600	400	0-400	400-800	800-2600
	S9(120s on/90s off)	730	400	0-400	400-623	623-2600
YJH423-600B	S1(Continuous)	600	661	0-661	661-1240	1240-2600
	S9(120s on/90s off)	730	661	0-661	661-960	960-2600
YJH423-600A	S1(Continuous)	600	1000	0-1000	1000-1500	1500-2600
	S9(120s on/90s off)	730	1000	0-1000	1000-1500	1500-2600
	S1(Continuous)	500	540	0-540	540-1080	1080-2600

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YJH423-500A	S9(120s on/90s off)	608	540	0-540	540-880	880-2600
YJH423-450A	S1(Continuous)	450	571	0-571	571-1021	1021-2600
	S9(120s on/90s off)	547	571	0-571	571-820	820-2600
YJH423-400B	S1(Continuous)	400	460	0-460	460-900	900-2600
	S9(120s on/90s off)	486	460	0-460	460-680	680-2600
YJH423-400A	S1(Continuous)	400	661	0-661	661-1280	1280-2600
	S9(120s on/90s off)	486	661	0-661	661-1040	1040-2600
YJH423-355A	S1(Continuous)	355	661	0-661	661-1280	1280-2600
	S9(120s on/90s off)	432	661	0-661	661-1180	1180-2600
YJH423-300A	S1(Continuous)	300	659	0-659	659-1137	1137-2600
	S9(120s on/90s off)	365	659	0-659	659-860	860~2600

3.3 Electrical Parameters of auxiliary circuit

Rated voltage (auxiliary circuit): AC 220~690 V 50/60Hz (ventilator), AC 220V ~ 240V/AC 110V ~ 120V (trace heating), DC 24V(Wind pressure switch),DC 24V(Push button switch)

4.Ex marking: II 2G Ex eb IIC T3 Gb or II 3G Ex ec IIC T3 Gc

Note: Only when the motor is installed with explosion-proof connectors with the EPL of "Gc", Ex marking of the motor is "II 3G Ex ec IIC T3 Gc".

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[13]

SCHEDULE

[14]

EU- Type Examination Certificate No: ACE26ATEX038X Rev00

[16]

Test documents are listed in the test report nº
EX_GEN027_26_26-1342, EX_EXE010_26_25-1342

[17]

Special conditions for safe use

1) Ambient temperature range: $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$.

2) This series of motor is suitable for inverter power supply. During the installation and operation, the types of frequency converter which equipped with this motor shall be the PWM converter with type1: ACS600/ACS880/ACS800/ACS800-107-1740-7 supply, Manufacturer is ABB Group Ltd; With type2: 6SE7241-1FQ20-3AB0-Z PWM Inverter / Sinamics S120 Bluedrive /6SL3720-1TG41-3AA3, Manufacturer is Siemens Group Ltd; Other information see User Manual, No. 0413304367,4.1.2 part. This series of motor is applicable to the aforementioned frequency conversion system or any other frequency conversion system with the same characteristics.

3) The PT100 temperature sensors are used to measure and monitor the temperature of winding. Set the alarm temperature at 165°C and the protection temperature at 170°C (Max.) in the control system. The current of PT100 shall not exceed 2mA.

4) The surface temperature determination of the motor was based on operation within "Zone A" (IEC 60034-1), typically $\pm 5\%$ of rated voltage.

5) The high temperature-resistant cable shall be selected as described in the instruction manual.

6) Observe the warning WARNING- DO NOT OPEN WHILE ENERGIZED.

[18]

Essential Health and Safety Requirements
Are fulfilled by the harmonized standard

[19]

Documents and technical datasheets:

Title	Object	Revision	Date
YJH423-1200A increased safety VVVF motor	1113300942/1113300943	A	2020.3
Nameplate	8318652025	A	2026.1
YJH423-1200B increased safety VVVF motor	1113301365/1113301366	A	2025.7
Nameplate	8318652857	A	2025.7
YJH423-1120A increased safety VVVF motor	1113301342/1113301506	A	2026.2
Nameplate	8318652901	A	2026.2
YJH423-1000A increased safety VVVF motor	1113301320/1113301321	A	2025.7
Nameplate	8318652808	A	2025.6
YJH423-900A increased safety VVVF motor	1113301107/1113301109	B	2025.5
Nameplate	8318652311	C	2025.5

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YJH423-860A increased safety VVVF motor	1113301429	A	2026.2
Nameplate	8318652910	A	2026.2
YJH423-800A increased safety VVVF motor	1013300708/1013300709	C	2024.4
Nameplate	8318651447	C	2023.7
YJH423-720A increased safety VVVF motor	1013300710/1013300711	C	2024.4
Nameplate	8318651450	A	2015.7
YJH423-600C increased safety VVVF motor	1113300961/1113300964	A	2020.6
Nameplate	8318652052	A	2026.2
YJH423-600B increased safety VVVF motor	1113300937/1113300938	B	2020.3
Nameplate	8318652019	B	2020.3
YJH423-600A increased safety VVVF motor	1113300940/1113300941	B	2020.3
Nameplate	8318652021	B	2020.3
YJH423-450A increased safety VVVF motor	1113301462/1113301463	A	2026.2
Nameplate	8318652021	A	2020.3
YJH423-400B increased safety VVVF motor	1113301431/1113301469	A	2026.4
Nameplate	8318653027	A	2026.4
YJH423-400A increased safety VVVF motor	1113301064/1113301068	A	2021.5
Nameplate	8318652216	C	2025.5
YJH423-355A increased safety VVVF motor	1113300811/1113300812	C	2020.6
Nameplate	8318651693	C	2024.6
YJH423-300A increased safety VVVF motor	1113301298/1113301314	A	2025.12
Nameplate	8318652751	A	2024.10
YJH423-500A increased safety VVVF motor	1113301501/1113301507	A	2026.2
Nameplate	8318653191	A	2026.2

The documents above-mentioned are strictly confidential and they are of only use of authorities.

A copy of the documents are saved by A.C.&E. Iberia S.L.

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[20] Declaration of conformity History

Number of certificate	Rev.	Comments	Date
ACE26ATEX038X	00	First emission	31/07/2026

Date: 31/07/2026



**Advanced Consulting and Engineering
Iberia SL**
Notified Body No NB3024

Matteo Marconi, CEO

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