

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: Presafe 16 ATEX 9216X Issue 0
- [4] Product: Flameproof induction motor (single phase and three-phase)
- [5] Manufacturer: Shenyang Daming Motor Co., Ltd
- [6] Address: No.30 Jianshe Naner Road, Hushitai Economic and Technology Development Zone Shenyang, Liaoning, P.R. China
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV Nemko Presafe AS, notified body number 2460, in accordance with Article 17 of Directive 2014/34/EU of the 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 reports listed in section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2012/A11:2013 and EN 60079-1: 2014
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of 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. 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 product shall include the following:

 II 2 G Ex db IIB T4 Gb


Bjørn Spongsveen
For DNV Nemko Presafe AS
Information on electronic signature www.presafe.com



Date of issue: 2016-12-22

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[13]

Schedule

[14] EU-TYPE EXAMINATION CERTIFICATE No.: Presafe 16 ATEX 9216X Issue 0

[15] **Description of Product**

This certificate covers a series of flameproof induction motors which are intended for use in potentially explosive atmosphere. The motor are adopted with total enclosed self-cold structure, cold of cooling is IC411. frame, drive-end shield, non-drive end shield, rotor and a rear cover. The materials for main parts, which consist to flame proof enclosure, such as frame, end shield and cover are all made from ZL104.

The yield stress of the fastener elements must be at least equal to grade 4.8

Type designation

YBSC96

YBSC90

YB SC aa b c – d e

YB: Flameproof induction
SC: Steel plate enclosure
aa: Shaft height (90 or 96)
b: Code of frame length (L or S)
c: Code of core length (1, 2, 3, 4 or 5)
d: Number of poles (2, 4 or 6)
e: Number of capacitors (C=1 or L=2)

Electrical Data

YBSC90: 110-115/220-230V, 220-230/380-415V, 0.37kW~1.5kW, 50/60Hz

YBSC96: 110-115 / 220-230V, 0.55~1.1kW 50/60Hz

Degrees of protection (IP Code)

IP20 on air inlet, IP10 on air outle

Ambient temperature:

-40°C to +60°C

Routine tests

According to EN 60079-1, clause 16, a static pressure test must be performed on every motor.

The test pressure is:

YBSC96:	1.5Mpa
YBSC90:	1.5Mpa
YBSC90 terminal box:	1.2Mpa

Every unit shall withstand the static pressure of lasting between 10s and 60s.

[16] Report No.: D0002937

[17] Specific Conditions of Use

Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 1 and 2 of EN/IEC 60079-1

[18] Essential Health and Safety Requirements

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

[19] Drawings and documents

Number	Title	Rev.	Date
YBSC96 Product drawing			
1DM.070.145~147	General assembly drawing	A	2013.7.20
5DM.670.157-159	Stator	A	2010.08.09
5DM.034.058, 079~080	Frame	B	2010.12.20
8DM.013.046	Front endshield	A	2011.12.16
8DM.013.235	Rear endshield	A	2011.08.05
8DM.013.234	Middle cover	B	2015.02.09
5DM.674.109-111	Rotor	B	2011.10.20
8DM.435.210	Fan	A	2012.02.09
8DM.306.014-2	Fan shield	B	2015.02.6
8DM.920.220, 222, 223	Stretching screw rod	A	2010.07.01
8DM.370.009	Seal ring	A	2015.02.09

8DM.860.512-2, 8DM.860.560-1 8DM.860.158-2	Nameplate	A A A	2011.03.22 2011.03.22 2011.03.22
8DM.925.019	Gland nut	B	2015.02.09
8DM.365.005	Outlet protective shell	A	2010.05.07
8DM.864.001	Earthing plate	A	2015.02.09
8DM.864.002	Earthing plate	A	2015.02.09
YBSC90 Product drawing			
1DM.070.207-214, 227~236, 1DM.070.237~245, 1DM.070.246~263, 1DM.070.264~272	General assembly drawing	B B B B	2015.02.11 2015.02.11 2015.02.11 2015.02.11
5DM.670.187-204, 216-224	Stator	B	2015.02.10
5DM.034.201-204	Frame	B	2015.02.11
8DM.013.205	Endshield (D)	B	2015.02.10
8DM.013.209	Flange Endshield (D)	B	2015.02.11
8DM.013.210	Rear endshield (N)	B	2015.02.10
5DM.674.204-211, 214	Rotor	B	2015.02.11
8DM.435.204	Fan	B	2015.02.10
8DM.306.203	Fan shield	B	2015.02.10
8DM.920.202-205	Stretching screw rod	B	2015.02.11
8DM.925.208	Plug	B	2015.02.10
8DM.925.206	Connector	B	2015.02.11
8DM.860.445-462, 466-474	Nameplate	B	2015.02.11
8DM.354.006	Terminal box base	B	2015.02.10
8DM.354.007	Terminal box cover	B	2015.02.10

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2016-12-21	D0002937

END OF CERTIFICATE



**PTDR.E323799
Motors for Use in Hazardous Locations**

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Motors for Use in Hazardous Locations

See General Information for Motors for Use in Hazardous Locations

SHENYANG DAMING MOTOR CO LTD

E323799

30 JIANSHEANER RD
HUSHITAI ECONOMIC &
TECHNOLOGY DEVELOPMENT ZONE
SHENYANG, LIAONING 110122 CHINA

Class I, Groups C and D; Class II, Groups F and G.

Electric Motor Model No. YBSC90S1-2C, Frame Size 56.

Last Updated on 2010-06-10

Questions?

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