


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 17 ATEX 10849X Issue 1
- [4] Product: High voltage flameproof three-phase induction motor
- [5] Manufacturer: Hoffmann Technics AG.
- [6] Address: Sittertalstrasse 34
9014 St. Gallen
Switzerland
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV GL 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, EN 60079-1:2007 and EN 60079-7: 2007
- [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 d IIC T4 Gb
Ex d e IIC T4 Gb

Bjørn Spongsveen
For DNV GL Nemko Presafe AS

The Certificate has been digitally signed.
See www.presafe.com/digital_signatures for more info



Date of issue: 2017-10-19

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

[13]

Schedule

[14] EU-TYPE EXAMINATION CERTIFICATE No.: Presafe 17 ATEX 10849X Issue 1

[15] Description of Product

This certificate covers a series of flameproof three-phase induction motors. They can adopt foot mounting, flange mounting & foot/flange mounting. The duty is S1. The motors are adopted with total enclosed structure and insulation class F. The code of cooling is IC411.

Motor is composed of main body, main terminal box. The main body is Ex d, the terminal box is Ex e, certified Ex e cable gland must used. There are terminal bushings between main body and terminal box. The material of bushing is DMC.

The frame, the end shield, the terminal box base, terminal box cover, the internal and outer bearing cover are made from HT200. The motor adopt the self-driven external cooling fan, the material of the outer fan is antistatic polypropylene plastic, the fan shield is also made from Q235-A steel plate.

When the frame ≥ 160 , there will be a auxiliary terminal box fitted. The property class of the fastener elements of each part of the flame proof casing must be at least equal to grade 8.8

Type designation and Technical data

Frame size: HJ 3X-80~355

220V, 230V, 240, 380V, 400V, 415V, 460V, 480V, 660V, 690V, 720V,

220/380V, 230/400V, 240/415V, 380/400V, 415/460V, 380/660V, 400/690V, 415/720V, 50/60Hz

0.18 to 315kW

Poles: 2, 4, 6, 8, 10, 12, 14 or 16

Insulation class: F

Degrees of protection (IP Code)

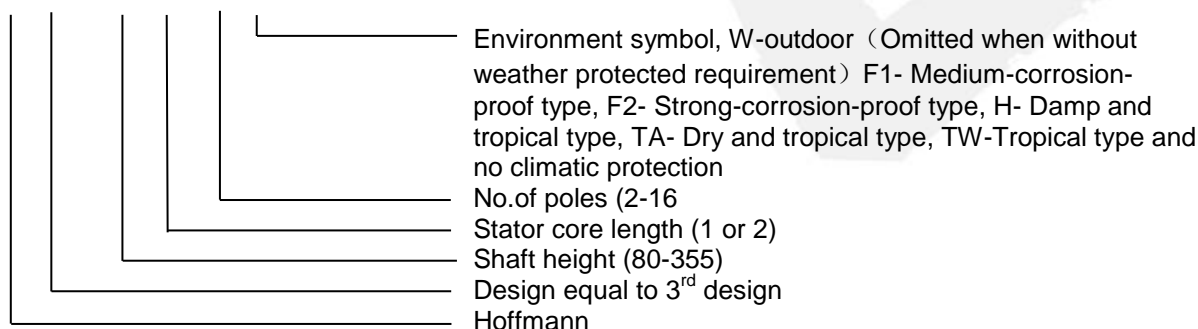
IP55

Ambient temperature:

-20°C to +40°C

Type designation key example:

HJ 3X - 132 M - 4 W



Routine test

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

The test pressure is:

HJ 3X-80	Main body: 1.2Mpa , Terminal box: 1.2Mpa
HJ 3X-90	Main body: 1.2Mpa , Terminal box: 1.2Mpa
HJ 3X-100	Main body: 1.2Mpa , Terminal box: 1.2Mpa
HJ 3X-112	Main body: 1.3Mpa , Terminal box: 0.9Mpa
HJ 3X-132	Main body: 1.95Mpa, Terminal box: 1.2Mpa
HJ 3X-160	Main body: 1.95Mpa, Terminal box: 1.2Mpa
HJ 3X-180	Main body: 1.95Mpa, Terminal box: 1.2Mpa
HJ 3X-200	Main body: 1.6Mpa, Terminal box: 1.3Mpa
HJ 3X-225	Main body: 1.6Mpa, Terminal box: 1.3Mpa
HJ 3X-250	Main body: 1.92Mpa, Terminal box: 1.3Mpa
HJ 3X-280	Main body: 1.92Mpa, Terminal box: 1.3Mpa
HJ 3X-315	Main body: 4.3Mpa, Terminal box: 1.2Mpa, auxiliary terminal box: 0.8Mpa
HJ 3X-355	Main body: 4.3Mpa, Terminal box: 1.2Mpa, auxiliary terminal box: 0.8Mpa

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

According to EN 60079-7, clause 7.1 a dielectric test shall be performed every Ex d e motor.

[16] **Report No.:** D0001724

[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
YB3-80			
1EE.070.2640.1-8	General assembly drawing	b	2011-12
8EE.013.511.1-2	End shield	a	2011-12
5EE.674.4594.1-8	Rotor	a	2010-4
8EE.200.4371.1-6	Shaft	a	2010-5
5EE.671.4893.1-8	Stator	b	2011-12
8EE.034.2780	Frame	a	2011-12
8EE.036.1821	Fan cover	original	2010-04
5EE.306.1623		original	2010-04
8EE.435.302	fan	original	2010-04
5EE.435.1396		a	2011-12
8EE.268.369	Sleeve	original	2010-04
YB3-90			
1EE.070.2641.1-8	General assembly drawing	b	2012-6
8EE.013.512.1-2	End shield	a	2011-12
5EE.674.4595.1-8	Rotor	a	2010-5
8EE.200.4372.1-4	Shaft	a	2010-5
5EE.671.4895.1-8	Stator	a	2010-5
8EE.034.2781.1-2	Frame	b	2012-6
8EE.306.1822	Fan cover	original	2010-4
5EE.306.1624		original	2010-4
8EE.435.303	fan	Original	2010-4
5EE.435.1397		a	2011-12
8EE.268.370	Sleeve	original	2010-5
YB3-100			
1EE.070.2642.1-6	General assembly drawing	b	2012-1
8EE.013.513.1-2	End shield	a	2012-1
5EE.674.4596.1-6	Rotor	b	2012-1
8EE.200.4373.1-5	Shaft	a	2010-5
5EE.671.4897.1-6	Stator	a	2010-5
8EE.034.2782	Frame	a	2012-1
8EE.306.1823	Fan cover	Original	2010-4
5EE.306.1625		a	2011-12
8EE.435.304	fan	a	2011-12
5EE.435.1398		a	2011-12
8EE.268.371	Sleeve	original	2010-4
Terminal box M5			
5EE.354.2042	General assembly drawing	b	2012-1
5EE.357.105	Terminal box base	b	2012-1
8EE.354.1671		b	2012-1
8EE.516.341	Terminal bolt	c	2013-12
8EE.353.081	Terminal box cover	b	2012-1
YB3-80			
1EE.070.4035.1-8	General assembly drawing ExdelICT4Gb	original	2014-03
YB3-90			

1EE.070.4036.1-8	General assembly drawing ExdeIICT4Gb	original	2014-03
YB3-100			
1EE.070.4037.1-6	General assembly drawing ExdeIICT4Gb	original	2014-01
YB3-112			
1EE.070.4038.1-4	General assembly drawing ExdeIICT4Gb	original	2014-01
Terminal box M5 Ex e			
5EE.354.2548	General assembly drawing	original	2014-04
8EE.354.1944	Terminal box base	original	2014-04
8EE.353.291	Terminal box cover	original	2014-04
8EE.516.341	Terminal bolt	c	2013-12
5EE.064.170	Wiring board	Original	2014-04
8EE.064.410		original	2014-04
8EE.325.908	Baffle	original	2014-04
8EE.371.2863	Gasket	Original	2014-04
8EE.371.2864		Original	2014-04
8EE.371.2865		original	2014-04
Terminal box M5 Ex d			
5EE.354.2042	General assembly drawing	b	2012-1
5EE.357.105	Terminal box base	b	2012-1
8EE.354.1671		b	2012-1
8EE.516.341	Terminal bolt	c	2013-12
8EE.353.081	Terminal box cover	b	2012-1
YB3-132 Product drawing			
1EE.070.4039.1-9	General assembly drawing ExdeIICT4Gb	original	2014-01
YB3-160 Product drawing			
1EE.070.4040.1-10	General assembly drawing ExdeIICT4Gb	original	2014-03
YB3-180 Product drawing			
1EE.070.4041.1-5	General assembly drawing ExdeIICT4Gb	original	2014-03
Terminal box M6 Ex e			
5EE.354.2549	General assembly drawing	original	2014-04
8EE.354.1945	Terminal box base	original	2014-04
8EE.353.292	Terminal box cover	original	2014-04
8EE.516.342	Terminal bolt	c	2013-12
5EE.064.171	Wiring board	Original	2014-04
8EE.064.411		original	2014-04
8EE.325.909	Baffle	original	2014-04
8EE.371.2866	Gasket	Original	2014-04
8EE.371.2867		Original	2014-04
8EE.371.2868		original	2014-04
YB3-200 Product drawing			
1EE.070.4042.1-6	General assembly drawing ExdeIICT4 Gb	original	2014-03
YB3-225 Product drawing			
1EE.070.4043.1-6	General assembly drawing ExdeIICT4	original	2014-02
Terminal box M8 Ex e			
5EE.354.2550	General assembly drawing	original	2014-04
8EE.354.1946	Terminal box base	original	2014-04

8EE.353.293	Terminal box cover	original	2014-04
8EE.516.344	Terminal bolt	b	2012-01
5EE.064.172	Wiring board	Original	2014-04
8EE.064.412		original	2014-04
8EE.325.910	Baffle	original	2014-04
8EE.371.2869	Gasket	Original	2014-04
8EE.371.2870		original	2014-04
8EE.371.2871		original	2014-04
YB3-250 Product drawing			
1EE.070.4044.1-4	General assembly drawing ExdeIICT4	original	2014-02
YB3-280 Product drawing			
1EE.070.4045.1-8	General assembly drawing ExdeIICT4	original	2014-01
Terminal box M10 Ex			
5EE.354.2551	General assembly drawing	No	2014-04
8EE.354.1947	Terminal box base	No	2014-04
8EE.353.294	Terminal box cover	No	2014-04
8EE.516.129	Terminal bolt	No	2009-02
5EE.064.173	Wiring board	No	2014-04
8EE.064.413		No	2014-04
8EE.325.911	Baffle	No	2014-04
8EE.371.2872	Gasket	No	2014-04
8EE.371.2873		No	2014-04
8EE.371.2874		No	2014-04
YB3-315 Product drawing			
1EE.070.4046.1-20	General assembly drawing ExdeIICT4	original	2014-01
YB3-355 Product drawing			
1EE.070.4047.1-6	General assembly drawing ExdeIICT4	Original	2014-01
1EE.070.4048.1-20		Original	2014-01
1EE.070.4049.1-10		original	2014-01
Terminal box M16 Ex e			
5EE.354.2552	General assembly drawing	No	2014-04
8EE.354.1948	Terminal box base	No	2014-04
8EE.353.295	Terminal box cover	No	2014-04
8EE.516.108	Terminal bolt	No	2009-02
5EE.064.174	Wiring board	No	2014-04
8EE.064.414		No	2014-04
8EE.325.912	Baffle	No	2014-04
8EE.371.2875	Gasket	No	2014-04
8EE.371.2876		No	2014-04
8EE.371.2877		No	2014-04
Auxiliary terminal box Exe			
5EE.354.2547	General assembly drawing	No	2014-04
8EE.354.1943	Terminal box base	No	2014-04
8EE.353.290	Terminal box cover	No	2014-04
8EE.371.2860	Gasket	No	2014-04
8EE.371.2861		No	2014-04

C1-JX5361-3A1	Name plate	A1	2017-07-30
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[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2017-07-31	D0001724
1	Corrections in type designation key	2017-10-19	D0001724

END OF CERTIFICATE