

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 8947X Issue 0
- [4] Product: BTF Series Explosion proof axial flow fan
- [5] Manufacturer: Shenli Electrical Technology Co., Ltd.
- [6] Address: Mechanical and electrical business park, Zeguo,
Wenling city, Zhejiang Province,
P.R. China, 317523
- [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 and EN14986-1:2007
- [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 db IIB T4 Gb

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



Date of issue: 2017-03-15

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[13] Schedule

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

[15] Description of Product

This certificate covers a series of flameproof fan motors, flameproof switch, wind leaf, fan and protective shell components and other parts. Flameproof fan motor consists of front cover, rear cover, stator, rotor components and other parts, flameproof switch consists of the lid and box seat and cable into device component. flameproof fan motor and flameproof explosion-proof switch are made of ZL102 aluminum, the wind leaf is made of ADC12 aluminum alloy, the fan and the protective shell material is Q235-A. The screws used for the assembly must be of yield stress higher or equal to 640MPa (grade 8.8). The fan is delivered with integrated cable gland.

Type designation

BTF-25, BTF- 30, BTF-40, BTF-45, BTF-50, BTF-60, BTF-70

Electrical Data

BTF-25: 0.3 Kw , 220-240VAC 50/60Hz

BTF-30: 0.5 Kw , 220-240VAC 50/60Hz

BTF-40: 1.1 Kw , 220-240VAC 50/60Hz

BTF-45: 0.7 Kw , 220-240VAC 50/60Hz

BTF-50: 0.9 Kw , 220-240VAC 50/60Hz

BTF-60: 1.5 Kw , 220-240VAC 50/60Hz

BTF-70 : 2.2 Kw , 220-240VAC 50/60Hz

Degrees of protection (IP Code)

IP55 for motor, IP20 for fan

Ambient temperature:

-20°C to +40°C

Routine tests

Routine test according to EN60079-1 clause 16:

Test pressure: 1.5MPa

[16] Report No.: D0002856

[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
Explosion proof motor (YBFZ71, 80, 100) drawings			
8SLXB.864.199	Explosion-proof signs	1.0	2011.10
8SLXB.864.520	Grounding signs (BXG-10/25)	1.0	2011.11.4
5SLXB.064.520	Patch panel (YBFZ)	1.0	2011.10
8SLXB.374.520	Metal washer (BXG-10/25)	1.0	2011.11.4
8SLXB.370.520	Seal ring (BXG-10/25)	1.0	2011.10
8UYD.806.800	Nameplate (YBFZ)	1.0	2011.10
8SLXB.354.520	Gland nut (BXG-10/25)	1.0	2011.11.4
5SLXB.671.802.1-2	A stator iron core with windings (YBFZ-71-2)	1.0	2011.7.1
1SLXB.050.802.1-2	Flameproof special fan motor (YBFZ-71-2)	1.0	2011.7.1
8SLXB.674.802.1	Rotor (YBFZ-71-2)	1.0	2011.7.1
8SLXB.200.802	Axle (YBFZ-71)	1.0	2011.7.1
8SLXB.013.802.1	Front cover (YBFZ-71)	1.0	2011.7.1
8SLXB.860.802.1-2	DATA ON NAMEPLATE (YBFZ-71)	1.0	2011.11.4
8SLXB.034.802	Machine base (YBFZ-71)	1.0	2011.7.1
8SLXB.013.802.2	Bake cover (YBFZ-71)	1.0	2011.7.1
5SLXB.663.802.1-2	Stator core (YBFZ-71-2)	1.0	2011.7.1
8SLXB.670.802.1-2	Stator (YBFZ-71)	1.0	2011.7.1
8SLXB.670.803.1-3	Stator (YBFZ-80)	1.0	2011.7.1
8SLXB.013.803.2	Bake cover (YBFZ-80)	1.0	2011.7.1
8SLXB.034.803	Machine base(YBFZ-80)	1.0	2011.7.1
8SLXB.860.803.1-3	DATA ON NAMEPLATE (YBFZ-80)	1.0	2011.11.4
8SLXB.013.803.1	Front cover (YBFZ-80)	1.0	2011.7.1
8SLXB.200.8.03.1-3	Axle (YBFZ-80)	1.0	2011.7.1
8SLXB.674.803.1-3	Rotor (YBFZ-80)	1.0	2011.7.1
1SLXB.050.803.1-3	Flameproof special fan motor(YBFZ-80)	1.0	2011.7.1
8SLXB.670.804.1-5	Stator (YBFZ-100)	1.0	2011.7.1
8SLXB.013.803.2	Bake cover (YBFZ-100)	1.0	2011.7.1
8SLXB.034.804	Machine base(YBFZ-100)	1.0	2011.7.1
8SLXB.860.804.1-5	DATA ON NAMEPLATE (YBFZ-100)	1.0	2011.7.1
8SLXB.013.804.1	Front cover (YBFZ-100)	1.0	2011.7.1
1SLXB.050.804.1-5	Flameproof special fan motor (YBFZ-100)	1.0	2011.7.1
8SLXB.200.704	Axle (YBFZ-100)	1.0	2011.7.1
5SLXB.674.704.1-5	Rotor (YBFZ-100)	1.0	2011.7.1
Flame proof switch (BXG-10, 25) drawings:			
8SLXB.140.520	Blind (BXG-10/25)	1.0	2011.11.4
8SLXB.864.520	Grounding signs (BXG-10/25)	1.0	2011.11.4
8SLXB.374.520	Metal washer (BXG-10/25)	1.0	2011.11.4
8SLXB.370.520	Seal ring (BXG-10/25)	1.0	2011.10.20
8SLXB.354.520	Gland nut (BXG-10/25)	1.0	2011.11.4
8SLXB.354.520.2	Cover (BXG-10)	1.0	2011.10.20

8SLXB.354.520.1	Base (BXG-10)	1.0	2011.10.20
8SLXB.300.520	Switch (BXG-10)	1.0	2011.10.20
8SLXB.860.520	Nameplate (BXG-10)	1.0	2011.11.4
1SLXB.010.520	BHZ (BXG-10)	1.0	2011.10.20
8SLXB.354.521.2	Cover (BXG-25)	1.0	2011.10.20
8SLXB.354.521.1	Base (BXG-25)	1.0	2011.10.20
8SLXB.300.521	Switch (BXG-25)	1.0	2011.10.20
8SLXB.860.521	Nameplate (BXG-25)	1.0	2011.7.1
1SLXB.010.521	BHZ (BXG-25)	1.0	2011.10.20
Explosion proof axial flow fan			
1SLXB.050.199	BTF-25	1.0	2011.11
5SLXB.012.200	Fan guard	1.0	2011.7
SLXB.023.002	Fanblade	1.0	2011.11
8SLXB.034.200.2	Hand grip	1.0	2011.7
8SLXB.063.200	Support block	1.0	2011.7
8SLXB.860.199	Technical data card	1.0	2016.11
1SLXB.050.201.3	BTF-45	1.0	2011.11
5SLXB.012.201	Fan guard	1.0	2011.7
SLXB.023.002.1	Fanblade	1.0	2011.11
8SLXB.034.2012	Shell	1.0	2011.7
8SLXB.063.200	Support block	1.0	2011.7
8SLXB.860.2013	Technical data card	1.0	2011.7
1SLXB.050.202	BTF-50	1.0	2011.11
5SLXB.012.202	Fan guard	1.0	2011.7
SLXB.026.002	Fanblade	1.0	2011.11
8SLXB.034.202.2	Shell	1.0	2011.7
8SLXB.063.200	Support block	1.0	2011.7
8SLXB.860.202	Technical data card (BTF-50)	1.0	2016.11
1SLXB.050.203.1-2	BTF-60	1.0	2011.11
5SLXB.012.203	Fan guard	1.0	2011.7
SLXB.027.002	Fanblade	1.0	2011.7
8SLXB.034.203.1	Shell	1.0	2011.7
8SLXB.860.203.1	Technical data card	1.0	2016.11
8SLXB.860.203.2	Technical data card	1.0	2016.11
1SLXB.050.205	BTF-80	1.0	2011.7
5SLXB.012.205	Fan guard	1.0	2011.7
SLXB.029.002	Fanblade	1.0	2011.7
8SLXB.034.205	Hull	1.0	2011.7
8SLXB.860.205.1	Technical data card	1.0	2016.11
8SLXB.864.199	Explosion-proof signs	1.0	2011.7.1
8SLXB.864.110	Rotation direction sings (BTF)	1.0	2011.7.1
8SLXB.063.200	Support Block (CTF-20/25/30/40/50) (BTF-25/30/40/45/50)	1.0	2011.7.1
5SLXB.034.200	Hull(BTF-25/30)	1.0	2011.7.1
8SLXB.034.200.2	Shell (BTF-25/30)	1.0	2011.7.1
8SLXB.034.200.1	Hand grip(BTF-25/30/40)	1.0	2011.7.1

8SLXB.034.200.3	Support(CTF30/BTF-25/30)	1.0	2011.7.1
8SLXB.034.200.4	Bottom studs(CTF30/BTF-25/30)	1.0	2011.7.1
8SLXB.860.200	Technical data card (BTF-30)	1.0	2016.11
1SLXB.050.200	Explosion-proof axial flow fan(BTF-30)	1.0	2011.11.4
SLXB.024.002	Fan blade (CTF-30)	1.0	2011.11.4
5SLXB.012.200	Fan guard (CTF-30/BTF-25/30)	1.0	2011.7.1
8SLXB.024.200	Cover (CTF-30/40) (BTF-25/30/40)	1.0	2011.7.1
8SLXB.023.200.1-6	Fan shroud (CTF-30/BTF-25/30)	1.0	2011.7.1
8SLXB.024.200	Tie piece (CTF-30/BTF-25/30)	1.0	2011.7.1
8SLXB.063.200	Support Block (CTF-20/25/30/40/50) (BTF-25/30/40/45/50)	1.0	2011.7.1
5SLXB.034.201	Hull(CTF-40/BTF-40/45)	1.0	2011.7.1
8SLXB.034.201.2	Shell (CTF-40/BTF-40/45)	1.0	2011.7.1
8SLXB.034.200.1	Hand grip(CTF40/BTF-25/30/40/45)	1.0	2011.7.1
8SLXB.034.201.3	Support(CTF30/BTF-25/30)	1.0	2011.7.1
8SLXB.034.201.4	Bottom studs(CTF-40/BTF-40/45)	1.0	2011.7.1
8SLXB.860.201.1	Technical data card (BTF-40)	1.0	2016.11
8SLXB.860.201.1	Technical data card (BTF-40)	1.0	2016.11
1SLXB.050.201.1-2	explosion-proof axial flow fan(BTF-40)	1.0	2011.11.4
SLXB.025.002	Fan blade (CTF-40)	1.0	2011.11.4
5SLXB.012.201	Fan guard (CTF-40/BTF-40/45)	1.0	2011.7.1
8SLXB.022.200	Cover (CTF-30/40/45) (BTF-25/30/40/45)	1.0	2011.7.1
8SLXB.023.201.1-7	Fan shroud(CTF-40/BTF-40/45)	1.0	2011.7.1
8SLXB.024.201	Tie piece (CTF-40/BTF-40/45)	1.0	2011.7.1
5SLXB.034.204	Hull(CTF-70/BTF-70)	1.0	2011.7.1
8SLXB.034.204.1	Shell (CTF-70/BTF-70)	1.0	2011.7.1
8SLXB.034.204.2	Support(CTF-70/BTF-70)	1.0	2011.7.1
8SLXB.034.204.3	Retainer(CTF-70/BTF-70)	1.0	2011.7.1
8SLXB.034.203.4	Castor mounting plate (CTF-60/70/80) (BTF-60/70/80)	1.0	2011.7.1
8SLXB.860.204.1	Technical data card (BTF-70)	1.0	2016.11
8SLXB.860.204.2	Technical data card (BTF-70)	1.0	2016.11
1SLXB.050.204.1-2	explosion-proof axial flow fan(BTF-70)	1.0	2011.11.4
SLXB.027.002	Fan blade (CTF-60)	1.0	2011.11.4
5SLXB.012.204	Fan guard (CTF-70/BTF-70)	1.0	2011.7.1
8SLXB.022.204	Cover (CTF-70/BTF-70)	1.0	2011.7.1
8SLXB.023.204.1-19	Fan shroud(CTF-70/BTF-70)	1.0	2011.7.1
8SLXB.024.204	Tie piece (CTF-70/BTF-70)	1.0	2011.7.1
1SLXB.050.199	Explosion-proof Axial Flow Fan (BTF-25)	-	2016.11
1SLXB.050.200	Explosion-proof Axial Flow Fan (BTF-30)	-	2016.11
1SLXB.050.201.1-2	Explosion-proof Axial Flow Fan (BTF-40)	-	2016.11
1SLXB.050.201.3	Explosion-proof Axial Flow Fan (BTF-45)	-	2016.11
1SLXB.050.202	Explosion-proof Axial Flow Fan (BTF-50)	-	2016.11
1SLXB.050.203.1-2	Explosion-proof Axial Flow Fan (BTF-60)	-	2016.11
1SLXB.050.204.1-2	Explosion-proof Axial Flow Fan (BTF-60)	-	2016.11
1SLXB.050.205	Explosion-proof Axial Flow Fan (BTF-60)	-	2016.11

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue	2017-03-15	D0002857

END OF CERTIFICATE