



国家防爆

Electrical Apparatus for Explosive Atmospheres

CERTIFICATE OF CONFORMITY

Cer No. CNEx14. 3400X

Applicant ABBOy
Motors and Generators Helsinki
Strombergintie 1 FI-00380 Helsinki Finland

Name of Product Range of induction motors

Type of Product AMI 560... 1000V < U_n ≤ 13800V

Marking Ex px IIA/IIB/IIC T1~T4 Gb/ Ex e px IIA/IIB/IIC T1~T4 Gb

Standard —

Drawing No. 3AAM201540、3AAM201560

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

GB 3836.1-2010 Electrical apparatus -Part 1: Equipment- General requirements
GB 3836.5-2004 Electrical apparatus for explosive gas atmospheres
Part 5: Pressurized enclosure "p"

Note See Annex

Valid Date From Dec 3, 2014 to Dec 2, 2019

Issue Date Dec 3, 2014

Director



CHINA NATIONAL QUALITY SUPERVISION AND TEST CENTRE
FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS

Address: No.20 North Zhongjing Rd, Nanyang, Henan(473008), P.R.China
Tel: 0377-63258564 Fax: 0377-63208175 [Http://www.china-ex.com](http://www.china-ex.com)

Note: This certificate is only valid for the products which identify with the sample(s) tested and verified. Holder(s) of this certificate have the responsibility to ensure the products complying with relevant standard(s).

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1. This certificate stand for the following products: Frame 560,

Rated Voltage (kV)	Rated frequency (Hz)	Power (kW)	Duty
$1.0 < U_N \leq 13.8$	50/60	≤ 9000	S1 or S2

2. The standard ambient temperature range is $-20 \sim +40^{\circ}\text{C}$, Non standard temperature range is $-50 \sim +55^{\circ}\text{C}$ which should be marked on the nameplate.

3. Special conditions for use:

3.1 Temperature class may vary between T1-T4 depending of the design and the motor is marked accordingly.

3.2 Equipent group may be IIA, IIB or IIC depending of equipment groups of the used auxiliaries and the motor is marked accordingly.

3.3 The certificates covers also the frequency converter drives as follows:

- In temperature classes T1-T4 with the converter types ACS600-, ACS 800-, ACS 1000- ACS 2000-, ACS 5000- and ACS 6000- series manufactured by ABB Group Ltd.

- In temperature classes T1-T3 with other converter presuming that the stator windings temperature detectors are used to protect the motor against excessive temperatures.

- All the manufacturer's insturctions concerning the speed range and the torque restrictinos shall be followed.

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4. The purging time = $(n \times V_0 + n_{mb} \times V_{mb}) / V'$,

V_0 The free internal enclosure volume plus the volume displaced by the rotor
(motor frame and cooler unit)

V_{mb} Enclosure volume of main terminal boxes (pressurized boxes)

N Purging factor for motor enclosure ($n=15, 17$ or 20 according to cooling method and
Mounting type)

n_{mb} Purging factor for main terminal boxes ($n_{mb} = 6$)

V' Minimum purging flow rate (4000NL/min)

Minimum overpressure P_{min} 100 Pa

Pressure of air supply 0.4~1.6MPa

Maximum overpressure P_{max} for 2P 3500Pa, other poles 3000 Pa

Maximum leakage rate 500 dm^3/min
(at 1000Pa, the motor at rest)

5. When the Ex mark of terminal box is Ex e, the rated voltage should be $\leq 11kV$.

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