



Electrical Apparatus for Explosive Atmospheres

CERTIFICATE OF CONFORMITY

Cert. No.: CNEx13.1555X

Manufacturer ABB Oy Motors and Generators
P.O. Box 633, Strombergin Puistotie 5A, FIN-65101 VAASA, Finland

Name of Product Asynchronous motor

Type of Product M3GP450

Marking Ex nA IIB or IIC T3 Gc(*)
Ex tb IIIA or IIIB or IIIC T125°C Db IP5X or IP6X(*)
Ex tc IIIB or IIIC T125°C Dc IP5X or IP6X(*) (See Annex for details)

Drawing No. 3GZF100745-A and Technical file No. 3GZF500930-314 Rev. E.

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

GB 3836.1-2010	Explosive Gas atmospheres - Part 1: Equipment - General requirements
GB 3836.8-2014	Explosive Gas atmospheres - Part 8: Equipment protection by type of protection "n"
IEC60079-31: 2008	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'

Note

1. Temperature range -55 °C to +80 °C
2. IP code: IP5X or IP6X (see manufacturer specifications)
3. This certificate is only valid in combination with the related Annex
4. Please read and understand the special conditions for safe use as stated in the Annex to this certificate

Valid Date From Apr 21, 2018 to Apr 20, 2023

Issue Date Apr 21, 2018

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
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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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This Annex to certificate CNEx 13.1555X covers the following model: Type M3GP450.

This product has been certified by LCIE (France), under certificate number IECEx

LCI 07.0001X, issue 3, dated 2015-04-03, based on drawing 3GZF100745-A and Technical file No. 3GZF500930-314 Rev. E.

Ex marking: Ex nA IIB or IIC T3 Gc(*)

Ex tb IIIA or IIB or IIIC T125°C Db IP5X or IP6X(*)

Ex tc IIIB or IIIC T125°C Dc IP5X or IP6X(*)

(*) Motors with temperature class T2 (Ex nA) or T150°C (Ex t) are authorized respecting the specifications stated in the technical file of the manufacturer.

Electrical data:

Rated voltage: 190...1000 Vac, three-phase

Frequency: 50 Hz/60Hz or variable frequency for Efficiency code IE2, Generation G

Special conditions for safe use:

- the temperature at the cable entry point resp. branching point can exceed 70°C resp. 80 °C. Use suitable cables and cable glands.
- the electrical motor supply connections are to be tightened with torque, see Manual
- In case of use with a frequency converter, the motor may be equipped with embedded thermal sensors to ensure the insulation class. The surface temperature class may also be protected by embedded thermal sensors. The motors must be supplied according to the manufacturers specifications stated on the 2nd nameplate to ensure the temperature class. The relevant instructions for use on variable frequency stated by the manufacturer have to be respected.

Issue Date Apr 21, 2018

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For the Group IIC, when the paint thickness exceeds the maximal values specified in GB 3836.1 table 8, the following warning is added:

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

For motors in dust atmospheres :

WARNING – AFTER DE-ENERGIZING, DELAY 60 MINUTES BEFORE OPENING

or

WARNING – DO NOT OPEN WHEN AN EXPLOSIVE DUST ATMOSPHERE MAY BE PRESENT

Routine test:

A routine dielectric strength test conform GB 3836.8 is applicable.

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防爆合格证

制造单位 ABB Oy Motors and Generators
地址: P.O. Box 633, Strombergin Puistotie 5A, FIN-65101 VAASA, Finland

产品名称 异步电动机

型号规格 M3GP450

防爆标志 Ex nA IIB or IIC T3 Gc(*)
Ex tb IIIA or IIIB or IIIC T125°C Db IP5X or IP6X(*)
Ex tc IIIB or IIIC T125°C Dc IP5X or IP6X(*) (*详细信息见附件)

产品标准 -

总装图号 3GZF100745-A and Technical file No. 3GZF500930-314 Rev. E

经对上述产品图样及技术文件的审查和样品检验,确认符合下列标准:

GB3836.1-2010《爆炸性环境 第1部分:设备 通用要求》

GB3836.8-2014《爆炸性环境 第8部分:由“n”型保护的设备》

IEC60079-31:2008《爆炸性环境 第31部分:由防粉尘点燃外壳“t”保护的设备》

记事:

1. 使用环境温度: -55°C to +80°C。
2. 防护等级: IP5X 或 IP6X(详细信息见附件)。
3. 本证书与相关附件一同使用时才视为有效。
4. 请仔细阅读并了解本证书附件中的安全使用条件。

中心主任

颁发日期

2018年4月21日

本证有效期

2018年4月21日至2023年4月20日



国家防爆电气产品质量监督检验中心
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防爆合格证 (附页)

CNEx13.1555X 的证书附件包含下列型号: M3GP450。

本产品已取得 LCIE (法国) 颁发的 IECEX 证书, 编号 IECEX LCI 07.0001X, issue 3, 颁发日期 2015-04-03, 认证图纸为 3GZF100745-A, 技术文件 3GZF500930-314 (版本 E)。

防爆标志: Ex nA IIB or IIC T3 Gc (*)

Ex tb IIIA or IIIB or IIIC T125°C Db IP5X or IP6X (*)

Ex tc IIIB or IIIC T125°C Dc IP5X or IP6X (*)

(*)符合制造商规定及技术文件的温度组别为 T2(Ex nA)或 150°C (Ex t) 的电动机也在此证书的认证范围内。

电气参数:

额定电压: 190-800Vac, 三相

频率: 50Hz、60Hz、变频 (IE2 能效等级, G 代)

安全使用条件:

- 电缆入口和电缆分叉点的温度分别可超过 70°C 和 80°C, 应选择适当的电缆及引入装置。
- 电机的电源连接紧固件应符合说明书中的力矩要求。
- 在使用变频器的情况下, 电机可以内置温度保护以保证绝缘等级, 也可以通过埋入式温度传感器来保证外壳的温度组别。电机必须有按照制造商第二名牌规定的要求进行供电以保证温度组别。还需遵守制造商提供的有关变频的要求。
- IIC 类设备, 如果涂覆厚度大于 GB3836.1 表 8 中规定的最大值, 须添加警示语: 警告: 潜在静电电荷危险一见使用说明书!

中心主任

颁发日期

2018 年 4 月 21 日

本证有效期

2018 年 4 月 21 日至 2023 年 4 月 20 日



国家防爆电气产品质量监督检验中心
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防爆合格证 (附页)

—粉尘环境用电机, 应添加警示语:

警告: 断电后, 应放电 60 分钟方可开盖!

或

警告: 可能存在爆炸性粉尘环境时禁止开盖!

例行试验:

须按照 GB3836.8 进行例行介电强度试验。



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