



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2020312301002068

<b>Applicant</b>	Siemens AG
<b>Address</b>	Vogelweiherstrasse 1-15, 90441 Nürnberg, Germany
<b>Manufacturer</b>	Siemens AG
<b>Address</b>	Vogelweiherstrasse 1-15, 90441 Nürnberg, Germany
<b>Production Factory</b>	Siemens, s.r.o. Elektromotory Mohelnice Branch
<b>Production Address</b>	Nádražní 25, CZ-78985 Mohelnice, Czech Republic
<b>Product</b>	Three phase asynchronous motor
<b>Model/Type</b>	1MB10**1A*** frame size 100
<b>Ex marking</b>	frame size 100: Ex tD A21 IP65 T120°C...T140°C, Ex tD A22 IP55 T120°C...T140°C, Ex nA IIB/IIC T3 Gc frame size 80, 90: Ex tD A21 IP65 T120°C, Ex tD A22 IP55 T120°C, Ex nA IIB/IIC T3 Gc
<b>Reference Standards</b>	GB3836.1-2010, GB3836.8-2014, GB12476.1-2013, GB12476.5-2013

**Certification mode** Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product* and CNEC-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (4 pages).

Issued on: 2020-09-10

Valid to: 2025-09-09

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:



Nanyang Explosion Protected Electrical  
Apparatus Research Institute Co.,Ltd.



<http://www.ccc-cnex.com>  
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CN 000073



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

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## Product information:

1. This certificate covers the following models:

- 1MB10\*\*0D/0E/1A\*\*\* frame size 100, 90, 80

Pole number:2,4,6,8

Rated power: 0.37 kW to 3.45 kW

Rated voltage: up to 690 V

Rated speed: up to 3600 r/min

Frequency:50/60Hz or variable frequency (up to 100 Hz)

Duty type: S1

Ex marking: frame size 100: Ex tD A21 IP65 T120°C...T140°C

Ex tD A22 IP55 T120°C...T140°C

Ex nA IIB/IIC T3 Gc

frame size 80, 90: Ex tD A21 IP65 T120°C

Ex tD A22 IP55 T120°C

Ex nA IIB/IIC T3 Gc

Nomenclature for motor model 1MB10\*(1)\*(2)\*(3)\*(4)\*(5)\*(6)\*(7)\*(8)\*(9)

1 -1= electrical machine

M - M= three-phase current asynchronous machines, surface-cooled, Ex

B - B= motors for special ambient temperatures

1 - 1= IEC

0 - 0= aluminum housing

1) - 1=Ex tD A21 IP65 T120°C (Zone 21),

2= Ex tD A22 IP55 T120°C (Zone 22),

3= Ex nA IIC T3 Gc (Zone 2),

3+B30 = Ex nA IIC T3 Gc or Ex tD A22 IP55 T120°C

2) - 1= IE2,

2=IE1,

3= IE3

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- 3) - OD=80mm,  
OE=90mm,  
1A= 100 mm,  
1B= 112 mm,  
1C= 132mm,  
1D= 160mm
- 4) - A= 2  
B= 4  
C= 6  
D= 8  
J= 4/2  
K= 6/4
- 5) - 0/1= S,  
2/3= M,  
4/5= L
- 6) - 22= 230VΔ/400VY,  
27= 500VY,  
34= 400VΔ/690VY,  
40= 500VΔ,  
90= Voltages for converter supply
- 7) -A=IM B3,  
C= IM V5,  
D= IM V6,  
E=IM V15,  
F=IM B5,  
G=iM V1,  
K= IMB14,  
J= IM B35,  
M= IM B18
- 8) - A= motor protection without  
B= motor protection 3 PTC thermistors for disconnection  
C= motor protection 6 PTC thermistors for warning and disconnection  
F= motor temperature sensing KTY84-130  
L= motor temperature recording sensor 1x PT1000

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- 9) K= motor temperature recording sensor 2x PT1000
- 0= basic series, only basic options
  - 4= terminal box at top
  - 5= terminal box on right hand side
  - 6= terminal box on left hand side
  - 7= terminal box at bottom
- Producers should organize production in accordance with the technical documents approved by the certification body.

### 2. Specific conditions of safety use:

- The motors are rated for S1 duty (continuous) when connected to a three phase supply having form and symmetry not worse than that defined in GB 755 and operated within defined voltage and frequency limits. For FS 100 with protection Ex tD A21 IP65 T120°C...T140°C the defined voltage and frequency is limit for zone A defined in GB 755.
- Due care shall be taken to make sure that the admissible temperatures of the components used will not be exceeded.
- In particular at ambient temperatures greater than +40°C, the maximum service temperature of the materials, components and seals shall be duly considered in the electro-thermal tests.
- Components attached or installed (e.g. terminal compartments, bushings, cable glands, connectors) must be of a technical standard that complies with the specifications on the cover sheet. They must be suited for the operating conditions and be covered by a separate examination certificate. The special conditions specified for the components must be complied with, and the components have to be included in the type test, if necessary.
- If the three-phase motor is cooled by a separately driven fan, adequate measures must be taken to ensure that the motor can only be operated with the separately driven fan switched on.
- The Ex marking of the equipment depends on the types of protection that apply from

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case to case. The type of protection symbols have to be listed in an alphabetical order behind the type of protection of the motor. Types of protection that are listed in the motor marking but do not apply in the individual case have to be removed from the marking.

- Details of further electrical designs, operation condition. Thermal protection and, if applicable, additional limitation can be called up by the manufacturer.
- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2008C179
- Factory inspection report: CN2020Q010076

4. Certificate change information: None

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