IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx BAS 08.0098X**

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Status: **Current**

Issue No: 7

Date of Issue: 2026-01-30

Applicant: **TECO Electric & Machinery Co. Limited**
Factory Number I & II
11 An Tung Road
Chung Li Industrial District
Taoyuan
320
Taiwan

Equipment: **A Low Voltage A.C. Motor Frame Size 160 and 180**

Optional accessory:

Type of Protection: **Flameproof and Increased Safety**

Marking: **Ex de IIC T4 (Tamb -20°C to +50°C) see schedule**

Certificate history:
Issue 6 (2024-07-16)
Issue 5 (2016-04-25)
Issue 4 (2014-11-25)
Issue 3 (2013-12-02)
Issue 2 (2011-10-17)
Issue 1 (2011-08-26)
Issue 0 (2009-04-20)

Approved for issue on behalf of the IECEx Certification Body: **D Brearley**

Position: **Lead Certification Engineer**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

SGS UK Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire SK17 9RZ
United Kingdom

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Manufacturer:
TECO Electric & Machinery Co. Limited
Factory Number I
11 An Tung Road
Chung Li Industrial District
Taoyuan
320
Taiwan

Manufacturing locations:

TECO Electric & Machinery Co. Limited
Factory Number I
11 An Tung Road
Chung Li Industrial District
Taoyuan
320
Taiwan

TECO Australia Pty Ltd
335-337 Woodpark Road
Smithfield NSW 2164
Australia

WUXI TECO Electric & Machinery Company Limited
No. 9, Changjiang South Road
Wuxi
Jiangsu
214028
China

See following pages for more locations

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2004 Edition:4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1:2007 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-7:2006 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

GB/BAS/ExTR08.0210/00 GB/BAS/ExTR11.0050/00 GB/BAS/ExTR13.0275/00

Quality Assessment Reports:

AU/TSA/QAR09.0005/11 GB/BAS/QAR08.0012/11 GB/BAS/QAR14.0011/07

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The 160 frame size motor has 2 to 8 poles and is rated at up to 18.5kW for vertical, horizontal, foot and flange mounted machines. The 180 frame size motor has 2 to 8 poles and is rated at up to 22kW for vertical, horizontal, foot and flange mounted machines.

See Annex for more information

SPECIFIC CONDITIONS OF USE: YES as shown below:
1. The hexagon head bolts used in the assembly of the motors must be of minimum grade 4.6 in accordance with ISO 898-1.

2. When anti-condensation heaters are fitted, they are to be interlocked such that they can only be energized when the motor is de-energised

3. For use with non-sinusoidal or variable frequency supplies the motor is fitted with thermal protection in the form of one 160°C PTC thermister per phase in the drive end stator winding overhang. These are to be connected to a protection circuit so as to limit the stator temperature to 160°C; in this arrangement the Temperature Classification is T3.

4. When the motor is supplied with bearing insulation, the user is responsible for checking the effectiveness of such installations at appropriate intervals, e.g. by the use of a 100V insulation tester and by visual inspection to ensure that no unpainted, unearthed metal can be shorted to earth.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 7.1

To update alternative manufacturer's address

File Reference: **26/0085**

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Additional manufacturing locations:

TECO New Zealand Ltd
4 Autumn Place
Penrose 1061
New Zealand

Annex:

IECEx BAS 08.0098X Annex.pdf

Baseefa
Rockhead Business Park
Staden lane, Buxton, Derbyshire
SK17 9RZ
United Kingdom

ANNEX to IECEx BAS 08.0098X Issue No. 0 Date: 2009/04/14

The motors are for connection to a sinusoidal supply and are designed for 3 phase, 50Hz and 60Hz and up to 690V.

The motors are continuously rated for S1 duty as defined in IEC 60034-1 and are for connection to a three-phase supply having a form and symmetry not worse than that defined in of IEC 60034-1.

For 60Hz frequency, outputs may be increased by 1.2.

The motors are fitted with an increased safety terminal box type TX - 26A or TX - 46A which is sealed from the stator enclosure by means of flameproof joints and a potted bushing which allows the conductors from the motor to pass through into the terminal box. The terminals fitted inside the terminal box are increased safety certified.

The terminal box is fitted with a gasket manufactured from solid neoprene between the cover and terminal box enclosure to provide the necessary IP rating.

All stator frames are ribbed to assist cooling from the external fan at the non-drive end of the machine.

Rolling element bearings are provided throughout, and anti-condensation heaters may be fitted.

Internal and external earth connection facilities are provided at the terminal box and on the motor frames.

Cable entry holes are provided in the increased safety terminal box as specified on the certified drawings for the accommodation of cable entry devices, with or without the interposition of a thread adapter. Unused entries are to be fitted with certified stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

The motor may also be used with non-sinusoidal or variable frequency supplies up to a maximum frequency of 60Hz. In this form the motor is fitted with thermal protection in the form of one 160°C PTC per phase in the drive end stator winding overhang for connection to a protection circuit set to limit the stator temperature to 160°C. In this arrangement the Temperature Classification is T3.