



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: **IECEX CES 14.0029X** issue No.: **0** Certificate history: _____

Status: **Current**

Date of Issue: **2014-09-30** Page 1 of 3

Applicant: **Svend Hoyer A/S**
Over Hadstenvej 42;
DK-8370 Hadsten
Denmark

Electrical Apparatus: **Three-phase asynchronous motors series 7AT 132-160-180-200-225-250-280-315**
Optional accessory:

Type of Protection: **Flameproof enclosures 'd'; increased safety "e"**

Marking: **Ex de IIC T4, T3 Gb or
Ex d IIC T4, T3 Gb**

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

Mirko Balaz

Position:

Head of IECEx CB

*Signature:
(for printed version)*

Date:

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

CESI
Centro Elettrotecnico
Sperimentale Italiano S.p.A.
Via Rubattino 54
20134 Milano
Italy



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Page 2 of 3

Manufacturer: **Svend Hoyer A/S**
Over Hadstenvvej 42;
DK-8370 Hadsten
Denmark

Additional Manufacturing location
(s):

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 electrical apparatus 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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 Report:
[IT/CES/ExTR14.0031/00](#)

Quality Assessment Report:
[IT/CES/QAR14.0004/00](#)



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Date of Issue: 2014-09-30

Issue No.: 0

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The three-phase asynchronous motors series 7AT 132-160-180-200-225-250-280-315 are manufactured by different constructive typologies. The motors can be supplied by mains or by inverter with simple or double polarity, self-ventilated or with forced ventilation. The motors can be equipped with auxiliary devices such as heaters (with max. power of 130 W), thermal detectors, brake and encoder.

The motors are manufactured with two separate compartments: motor (Ex d) and terminal box (Ex d or Ex e) for supply and auxiliary circuits connection or can be provided with permanently connected cables.

The cable entry devices used on the enclosure shall be suitably certified.

See Annex for further description.

CONDITIONS OF CERTIFICATION: YES as shown below:

- Supply cables of motors size 315LB, motors without terminal box and motors for the ambient temperature +60°C shall be suitable for an operating temperature equal or greater than 92°C;
- Screws used for fastening the parts of motor enclosure, shields and terminal box shall have a yield strength equal or higher than:
 - 800 N/mm² for motors size 132, 160, 180, 280 and 315;
 - 1200 N/mm² for motors size 200, 225 and 250.
- The motor provided with the cables permanently connected, shall have these cables protected against the risk of damage due to mechanical stresses. The free end connections shall be made according to one of the types of protection indicated in the IEC 60079-0 standard according to the installation rules in force in the site of installation.
- The flamepaths are specified in the manufacturer drawings. For information regarding the dimensions of the flameproof joints the manufacturer shall be contacted.

Annex: IECEx CES14_0029X ANNEX HOYER motors 7AT 132-315.pdf