

We, the manufacturer: SVEND HOYER A/S, Over Hadstenvvej 42, DK-8370 Hadsten -www.hoyermotors.com
With full responsibility we state and confirm conformity of the product:

Code: 1833863		N°:		02/22	219 kg
3 -Mot		7ATAE 180L-4ETA/T4 IECEx			B5
Ta 50 °C	IC 411	Class F	Rise B	IP56	
Hz	kW	V	A	cos fi	rpm
60	36	D 440	61	0,85	1740
3PTC T130 HT=80W/230V~					
6310 2ZC3		S2-10			



PROTECTION: Ex db eb IIC T4 Gb **CERTIFICATE:** IECEx CES 14.0029X

**THREE-PHASE ASYNCHRONOUS MOTOR
IN PROTECTION EXPLOSION-PROOF ENCLOSURE "d"
5AT 71-80-90-100-112**

Marking for ambient temperature -20°C to +40°C/+ 50°C/+ 60°C:

Ex db eb IIC T3/T4/T5/T6* Gb;
Ex db IIC T3/T4/T5/T6* Gb;

T6* not for all motors

IECEx Certificate: IECEx CES 14.0028X

is in conformity with IECEx Scheme Rules, IECEx 02 and the following Norme IEC / IEC standards have been applied:

IEC 60079-0:2011

IEC 60079-1:2014

IEC 60079-7:2015

IEC 60034-1,5, 6, 7, 8, 9, 11, 12, 14, 25

IEC 60072

This product also complies with the requirements of the new editions since the changed requirements of the new editions do not affect this product.

**THREE-PHASE ASYNCHRONOUS MOTOR
IN PROTECTION EXPLOSION-PROOF ENCLOSURE "d"
7AT 90-100-112-132-160-180-200-225-250-280-315**

Marking for ambient temperature -20°C to +40°C/+ 50°C/+ 60°C:

Ex db eb IIC T3/T4/T5/T6* Gb;
Ex db IIC T3/T4/T5/T6* Gb;

T6* not for all motors

IECEx Certificate: IECEx CES 14.0029X

is in conformity with IECEx Scheme Rules, IECEx 02 and the following Norme IEC / IEC standards have been applied:

IEC 60079-0:2012

IEC 60079-1:2014

IEC 60079-7:2015

IEC 60034-1,5, 6, 7, 8, 9, 11, 12, 14, 25

IEC 60072

This product also complies with the requirements of the new editions since the changed requirements of the new editions do not affect this product.

is in conformity with the following Directives, and with the relevant National laws: 2014/34/EU, 2014/30/EU (2004/108/EG), 2006/42/EC, 2014/35/EU, 2009/125/EC, 2011/65/EU, 2015/863/EU and that the following harmonized standards have been applied: EN 60079-0:2012, EN 60079-0/A11:2013, EN 60079-1:2014, EN 60079-7:2015, EN 60079-31:2014. The motors are constructed in accordance with the applicable safety requirements of the relevant industrial standards. EN 60034-1,5, 6, 7, 8, 9, 11, 12, 14, 25, 30 and IEC 60072. QUALITY ASSESSMENT REPORT NUMBER: IT/CES/QAR 14.0004/00.

Special conditions for safe use (X)

- Supply cables of motors for the ambient temperature +60°C shall be suitable for an operating temperature equal or greater than 85°C;
- Screws used for fastening the parts of motor enclosure, shields and terminal box shall have a yield stress higher than 800N/mm².
- 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 EN 60079-0 standards according to the installation rules in force in the site of installation.

Special conditions for safe use (X)

- The supply cables of motors for the ambient temperature of + 60°C shall be suitable for an operating temperature equal or greater than 85°C.
- The screws used for fastening of the parts of motor enclosure size 90, 100, 112, 132, 160, 180, 280 and 315 shall have a yield stress higher than 800 N/mm².
- The screws used for fastening of the parts of motor enclosure size 200, 225 and 250 shall have a yield stress higher than 1200 N/mm² for the assembly with shield and 800 N/mm² for terminal box.
- The motor provided with the cables permanently connected, shall have these cables protected against the risk of damage due to mechanical stresses. The end connections shall be made according to one of the types of protection indicated in the EN 60079-0 standards according to the installation rules in force in site of installation.

By unit testing conformity of product is verified according to above stated in this Declaration of conformity. Originals of test and measurement copy of this statement are stored permanently in company. The product was found to be in order and was released for dispatch. The routine dielectric test have been performed at 2U + 1000V with a minimum value of 1500V (U = rated voltage of the motor). The motor features have been checked according to the routine tests according to EN 60079-0 standard, EN 60079-1 and EN 60079-7 standard. The routine overpressure test on the Ex-d motors have been carried out, with the static method according to paragraph 15.1.3.1 of the EN 60079-1 standard. The results of the tests performed on our delivery items confirm that the above-listed parts comply with the order specifications. All data stated on name plate of this product are within range of allowance stated in regulations IEC 60034. The equipment with which controls and testing was carried out is calibrated and duly verified. This statement does not warrant any characteristics regarding product liability. Safety instructions stated in the production records have to be adhered to.

For operation with frequency converter: Motor is built in compliance with IEC 60034-25, so it is capable to work with power supply from frequency converter (2p=2; 5 to 87 Hz and 2p=4, 6, 8; 5 to 100 Hz). According to IEC 60034-11 for motor winding there are according to temperature class (T4) 3xPTC-130°C or (T3)150°C ± 5°C sensors. Characteristics of thermal sensors are in compliance with DIN 44081/44082. Speed regulation range is defined by data stated on motor name plate, and given torque reduction diagram defines or torque and power. Frequency converter used for this drive must be in compliance with IEC 60034-25 for protection of over voltage and from voltage gradient change. Protection from short-circuit of any kind (to phase, to earth) must be provided inside frequency converter device. The indicated product is intended for installation into a different machine.

Other remarks:

- motors with anti-condensate heaters, thermal protection required characteristics of heater are stated on motor name plate.
- cable gland entries in motors Ex protection Ex db are closed with plugs for transport and storage and they must be removed in instalation with suitable cable glands or cable plags in Ex protection and IP protection.

Manufacturer's responsible person: Tomas Zaturskis Technical Team Lead, Europe

Quality assurance:

WS:

Signature:

Hadsten,