



(1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

PTB 10 ATEX 2023

(4) Equipment: Ex-motor, type ExVent

(5) Manufacturer: INTERTEC-Hess GmbH

(6) Address: Raffineriestraße 8, 93333 Neustadt/Donau, Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential assessment and test report PTB Ex 10-28255.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2006 **EN 60079-18:2004**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

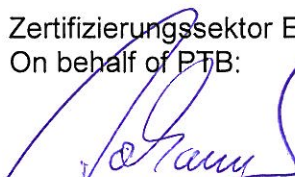
(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:

 **II 2 G Ex mb IIC T4**

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

Braunschweig, November 12, 2010


Dr.-Ing. U. Johannsmeyer
Direktor und Professor



SCHEDULE

(13)

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 10 ATEX 2023**

(15) Description of equipment

The electric motors of type ExVent are used to drive fans, blowers, pumps, etc. inside of enclosures like protective cases or protective cabinets installed in hazardous areas.

Electrical data

The electric motors are rated for an operating voltage up to maximum 250 V at a frequency of 50 Hz. The maximum rated current is 1 A for 250 V and 2 A for 125 V.

The ambient temperature range is -60 °C up to +60 °C.

Type code

ExVENT	XX	Xxx	Xx	Xxx	Xx	Explosion protected electric motor
						30xx Motor 30 with packet thickness of xx mm
						L Fan R Radial blower Motor for other applications
						x Fan diameter x Specifications of radial blower: diameter / length of roller
						x Material of fan ABS, PA x Material of blower rotor / enclosure Al / Al =AA; Al / steel = AS
						AM Alarm unit (additional thermo-switch under potting compound) xM Length of connecting cable x m (standard length: 1 m) xxx Possible customized design

(16) Assessment and test report

PTB Ex 10-28255

(17) Special conditions for safe use

The connecting cable shall be connected inside of an enclosure which complies with the requirements of an acknowledged type of protection according to EN 60079-0:2006 section 1, if the connection is intended inside the hazardous area.

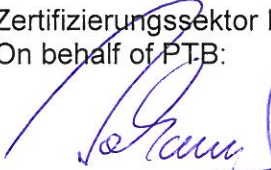
A fuse corresponding to motor's rated current (max. $3 \times I_B$ according IEC 60127-2-1) or a motor protecting switch with short-circuit- or thermal instantaneous tripping (adjusted to rated current) shall be connected in series to each electric motor. For very low rated motor currents, the fuse with the lowest current rating according to the above referenced IEC standard will be sufficient. The fuse may be accommodated in the corresponding power supply unit or it shall be connected in series separately. The rated voltage of the fuse shall be the same as or higher than the maximum operating voltage specified for the electric motor. The breaking capacity of the fuse link shall be the same as or higher than the maximum short-circuit current expected to occur at the place of installation (usually 1500 A).

The fan blades shall only be made of such materials for which the risk of an electrostatic charge is excluded.

(18) Essential health and safety requirements

met by compliance with the standards mentioned above

Zertifizierungssektor Explosionsschutz
On behalf of PTB:


Dr.-Ing. U. Johannsmeyer
Direktor und Professor



Braunschweig, November 12, 2010

1 SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 10 ATEX 2023

(Translation)

Equipment: Ex-motor, type ExVent

Marking:  II 2 G Ex mb IIC T4

Manufacturer: INTERTEC-Hess GmbH

Address: Raffineriestraße 8
93333 Neustadt/Donau, Germany

Description of supplements and modifications

The electric motors of type ExVent are used to drive fans, blowers, pumps, etc. inside of enclosures like protective cases or protective cabinets installed in explosion hazardous areas. They comply with the requirements of the standards listed below.

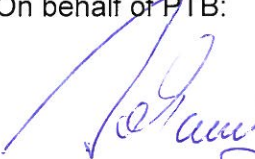
Applied standards

EN 60079-0:2012, EN 60079-18:2009

Test report: PTB Ex 13-22334

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

Braunschweig, April 15, 2013


Dr.-Ing. U. Johannsmeyer
Direktor und Professor

