



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 PTB 11.0016X	issue No.:1	Certificate history: Issue No. 1 (2013-5-7) Issue No. 0 (2011-2-21)
Status:	Current		
Date of Issue:	2013-05-07	Page 1 of 4	
Applicant:	INTERTEC-Hess GmbH Raffineriestraße 8 93333 Neustadt/Donau Germany		
Electrical Apparatus: <i>Optional accessory:</i>	Ex-Motor, type ExVent		
Type of Protection:	encapsulation "m"		
Marking:	Ex mb IIC T4		
Approved for issue on behalf of the IECEx Certification Body:	Dr.-Ing. Ulrich Johannsmeyer		
Position:	Head of Department "Intrinsic Safety and Safety of Systems"		
Signature: (for printed version)	 <hr/>		
Date:	<u>2013-05-22</u>		

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:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





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Manufacturer: **INTERTEC-Hess GmbH**
Raffineriestraße 8
93333 Neustadt/Donau
Germany

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 Explosive atmospheres - Part 0: General requirements

Edition: 6.0

IEC 60079-18 : 2009 Explosive atmospheres Part 18: Equipment protection by encapsulation "m"

Edition: 3

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:

[DE/PTB/ExTR11.0028/00](#)

[DE/PTB/ExTR11.0028/01](#)

Quality Assessment Report:

[DE/PTB/QAR07.0005/01](#)

[DE/PTB/QAR07.0005/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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.
For more Information see Attachment below.

CONDITIONS OF CERTIFICATION: YES as shown below:

For special conditions for safe use see Attachment below



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

new standards applied,
no changes necessary

Annexe: [C110016_Attachment.pdf](#)



Applicant: INTERTEC-Hess GmbH

Electrical Apparatus: Ex-motor, type ExVent

Description of equipment

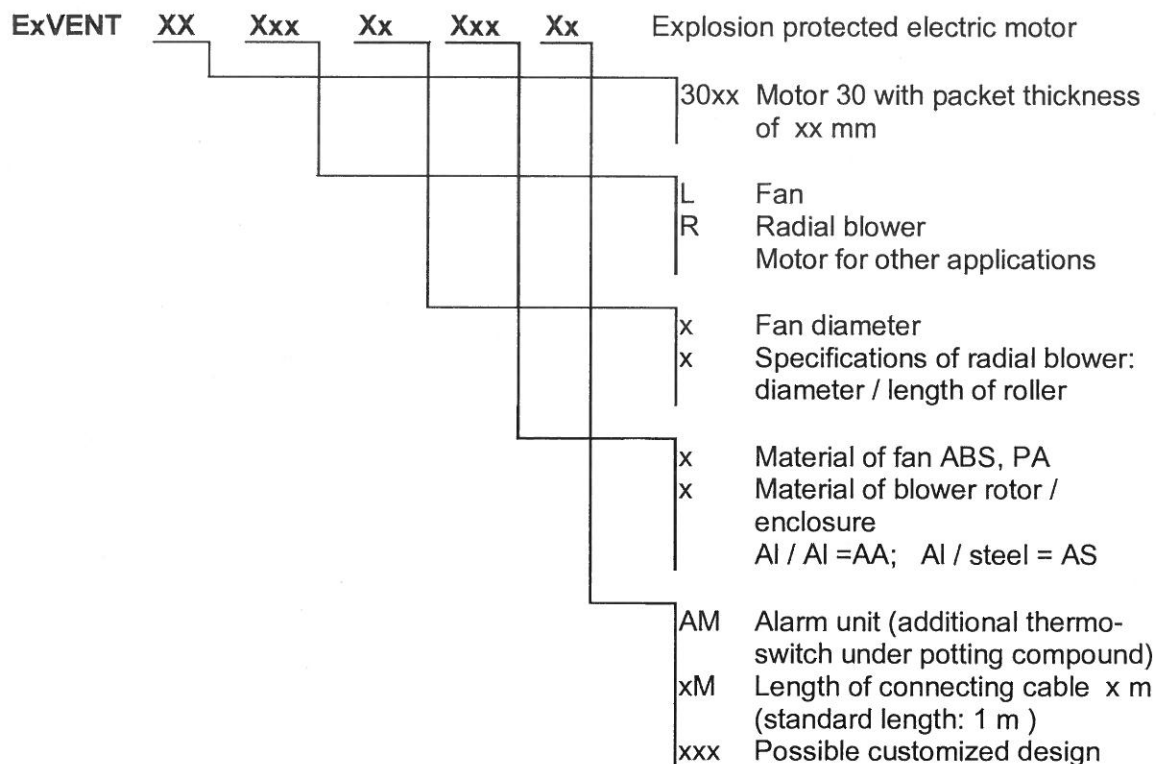
The electric motors of type ExVent are used to drive fans, blowers, pumps, etc. inside of enclosures like protective cases or protective cabinets installed in hazardous areas.

Electrical data

The electric motors are rated for an operating voltage up to maximum 250V 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





Special conditions for safe use

1. 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 section 1, if the connection is intended to be made inside the hazardous area.
2. A fuse corresponding to the rated current of the motor (max. $3 \times I_{\text{rating}}$ according to 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).
3. The fan blades shall only be made from such materials for which the risk of an electrostatic charge is excluded.