

EU - Type Examination Certificate

(1)

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**

(3) EU - Type Examination Certificate Number

EPS 20 ATEX 1 188 X

Revision 0

(4) Equipment: Motor series, type MK 085-***, MK 106-***, MK 137-***

(5) Manufacturer: ZIEHL-ABEGG SE

(6) Address: Heinz-Ziehl-Straße
74653 Künzelsau
Germany

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

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, 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 of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 20TH0435.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN IEC 60079-7:2015+A1:2018

(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 annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

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



II 2G Ex eb IIC T4/T3 Gb



Certification department of explosion protection

Tuerkheim, 2023-03-27

Ulrich Feike



Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

(13)

Annex

(14) **EU - Type Examination Certificate EPS 20 ATEX 1 188 X**

Revision 0

(15) Description of equipment:

AC motor series in type of protection increased safety with level of protection "eb". The motor enclosure has an ingress protection level of IP44. The motor enclosure is equipped with already certified cable glands for the respective zone and gas group. The motors are only intended for the use with axial- or radial fans. The cooling is achieved by convection of the air around the motor enclosure and through the motor housing. The detailed mechanical construction is documented in the confidential test report 20TH0435.

The electrical data of the motors and their protective devices for safe operation, as well as the precautions for compliance with the temperature classes and the max. surface temperature are specified in a data sheet of each motor which is part of this certificate.

Electrical data:

100V / 690V - 50Hz (for details see marking label of each motor or motor data sheet which is part of this certificate)

(16) Reference number: 20TH0435

(17) Special conditions for safe use:

- The ambient temperature range is -40 °C to +50 °C (the specific ambient temperature is indicated in the motor data sheet). The convection transport medium (air) around the motor is not allowed to exceed the max. temperature given in the motor data sheet.
- The motor is equipped with embedded temperature sensors (PTC acc. DIN VDE V0898-1-401; IEC 60738-1). The motor is only allowed to be used with a respective certified protective device (temperature measurement unit for Ex motors; II (2) G) which is not part of the present EU – type examination certificate. The data of motor datasheet, part of the present EU – type examination certificate must be observed and used for the proper selection of protective device.
- The non-terminated cable ends of the motor cable must either be connected to power outside of the hazardous area or a proper Ex-e or Ex-d junction box and terminals must be used for the connection in the hazardous area in accordance with EN 60079-14. The terminal and junction box is not part of the present EU – type examination certificate.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Tuerkheim, 2023-03-27

