

[1] **EC-TYPE EXAMINATION CERTIFICATE**

according to Directive 94/9/EC, Annex III

(Translation)



[2] Equipment and Protective Systems intended for use in Potentially Explosive Atmospheres, Directive 94/9/EC

[3] EC-Type Examination Certificate Number: **IBExU15ATEX1129 X**

[4] Equipment: **Motorized Pulley**
type TM800H-exM2-... and TM800HD-exM2-...

[5] Manufacturer: RULMECA GERMANY GmbH

[6] Address: Wilslebener Chaussee 12-14
06449 Aschersleben
GERMANY

[7] The design of the equipment mentioned under [4] and any acceptable variations thereto are specified in the annex to this EC-Type Examination Certificate.

[8] IBExU Institut für Sicherheitstechnik GmbH, Notified Body number 0637 in accordance with article 9 of the Directive 94/9/EC of the European Parliament and the Council of 23 March 1994, certifies that the equipment mentioned under [4] has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The test results are recorded in the test report IB-10-3-293 of 17 December 2015.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013 and EN 60079-1:2007.

[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 under [17] in the annex to this EC-Type Examination Certificate.

[11] This EC-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

[12] The marking of the equipment mentioned under [4] shall include the following:

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Fuchsmühlenweg 7 - 09599 Freiberg, GERMANY
☎ +49 (0)3731 3805-0 - ☎ +49 (0)3731 23650

Authorised for certifications
-Explosion protection-

By order

(Dipl.-Ing. [FH] Henker)



(ID no. 0637)

Freiberg, 17 December 2015

Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Annex

[13] **Annex**

[14] **to the EC-TYPE EXAMINATION CERTIFICATE IBExU15ATEX1129 X**

[15] **Description of equipment**

The Motorized Pulley type TM800H-exM2-... and TM800HD-exM2-... serves to drive belt conveyors. The flameproof enclosure consists essentially of the basket shell with the screwed pulley end plates. Inside are the driving motor and the gear. The cooling of the motor is carried out via the oil filling. The electric connection is carried out via a flameproof plug.

Technical data

- | | |
|------------------------------------|-----------------------|
| - Nominal voltage: | 380 V up to 1200 V |
| - Nominal power: | 55 kW up to 132 kW |
| - Nominal speed: | 1.0 m/s up to 6.5 m/s |
| - Shell width (RL): | 1400 mm up to 2000 mm |
| - Nominal frequency: | 50/60 Hz |
| - Operation mode: | S1 |
| - Ambient temperature range: | -20 °C up to +40 °C |
| - Property class fastening screws: | 10.9 |

The rated values are included in the test documents or in the data sheets.

[16] **Test report**

The proof of explosion protection of the Motorized Pulley type TM800H-exM2-... and TM800HD-exM2-... is recorded in the test report IB-10-3-293 of 17 December 2015. The test and information documents are part of the test report and listed there.

Summary:

The Motorized Pulley type TM800H-exM2-... and TM800HD-exM2-... fulfils the requirements of explosion protection for equipment of Group I, Category M2, type of protection flameproof enclosure „d“ for explosive atmospheres with gases and vapors of explosion group I.

[17] **Special conditions for safe use**

- Repairs of the flameproof joints must be made in compliance with the constructive specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in table 1 of EN 60079-1.
- For the connection of the Motorized Pulley only the associated plug device as specified in the operating instruction may be used. The instructions contained in the respective EC-Type Examination Certificate have to be observed.
- Unused openings for cable entries have to be closed durably with suitable screw plugs, which are confirmed for explosion protection according to EN 60079-1, 11.9.
- The motor must be protected by means of a device for the direct temperature control. It consists of three temperature sensors (PTC thermistors) built in into the winding and an appropriate release device.
- At converter operation (20 Hz up to 60 Hz or 30 Hz up to 70 Hz) the current limitation of the converter is set on not more than the 1.5-fold motor rated current. The accurate requirements for the frequency converter are given in the operating instruction.
- As specified by the manufacturer only fastening screws according to DIN 7984 may be used for the cover of the terminal box.

[18] **Essential Health and Safety Requirements**

Confirmed by compliance with standards (see [9]).

By order

Freiberg, 17 December 2015



(Dipl.-Ing. [FH] Henker)