

EC-TYPE EXAMINATION CERTIFICATE



[1]

[2]

**Component intended for use on/in equipment or protective system
intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

[3]

EC-Type Examination Certificate Number: **DEMKO 03 ATEX 134885U Rev. 0**

[4]

Component: **Flameproof Motors, Models 1223007401 and 1933007419**

[5]

Manufacturer: **Bluffton Motor Works LLC**

[6]

Address: **410 East Spring Street, Bluffton, IN 46714 USA**

[7]

This Component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. **12CA27257**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2009

EN 60079-1:2007

[10]

The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

[11]

This EC-Type examination certificate relates only to the design, examination and tests of the specified component in accordance with the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

[12]

The marking of the component shall include the following:

 **II 2 G Ex d IIB Gb**

Certification Manager

Jan-Erik Storgaard

Notified Body

This certificate may only be reproduced in its entirety and without any change, schedule included.

Date of issue: 2012-08-08

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[14]

Schedule
EC-TYPE EXAMINATION CERTIFICATE No.
DEMKO 03 ATEX 134885U Rev. 0
Report: 12CA27257

[15]

Description of Component:

Flameproof motors 56 and 36 frames, constructed of cast aluminium end frames and steel shell. The motors may have an integral voltage selector switch and are normally provided with a permanently attached supply cable. The motors are protected against overheating by use of thermal overload protectors built inside the motor. For cooling of the enclosure motors rely on the working of the external fan, which is to be mounted in the end application.

Nomenclature for type:

1	1	3	7	05	7	4	01
I	II	III	IV	V	VI	VII	VIII

I – Product Line

1 – 56 or 36 Frame

II – Product Type

- 1 – Cap Start Induction Run
- 2 – Cap Start Cap Run
- 3 – Poly Start Induction Run
- 4 – Split Phase Induction Run
- 5 – Permanent Split Cap
- 6 – Split Phase Cap Run
- 9 – Special For 36" Frame

III – Enclosure Type

3 – Totally Enclosed, Air Over

IV – Basic Design

- 1, 2 – 4, 6, 8 Poles
- 3, 4 – 2 Poles
- 5 – 2 Speed
- 7 – Unassigned

V – No Significance

VI – Denotes a Basic Design Change

7 – Non-Solid State Switch

VII – Overload

- 1 – No Overload
- 4 – Auto Overload
- 7 – Manual Overload

VIII – No Significance

Temperature range

The ambient temperature range is -20 °C to + 40 °C.

Electrical data

249 W (1/3 hp) maximum for 36 Frame

1120 W (1.5 hp) maximum for 56 Frame

Installation instructions

If no permanently attached supply cable is used, the cable entry device shall be certified to "ATEX" standards, in type of explosion protection flameproof enclosure 'd,' suitable for the conditions of use and correctly installed.

Routine tests

The manufacturer shall perform a pressure test to the inside of each produced shell in accordance with General Factory Instruction (GFI) #300003-143. At the end of the pressure test the weld is visually inspected for cracks or other mechanical defects. By the use of this Routine Weld Check Procedure the requirements of EN 60079-1:2007 clause 16 will be satisfied.



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[14]

Schedule
EC-TYPE EXAMINATION CERTIFICATE No.
DEMKO 03 ATEX 134885U Rev. 0
Report: 12CA27257

[16] Report No.:

Project Report No.: 12CA27257 (Hazardous Location Testing)

Documents:

Description:	Drawing No.:	Rev. Level:	Date:
56" Frame Assembly Drawing (5 pages)	282420-821	1	2012-05-10
36" Frame Assembly Drawing (4 pages)	282420-801	1	2012-05-21
Cable Gland	279441	6	2012-07-17
Nameplate Drawing	279443-305	2	2012-06-15
Installation Instructions	574134103	2	2012-06-13
Warning Label	282513801	-	2012-06-15

[17] Conditions for safe use:

- The permanently attached cable shall be fixed installed and shall be terminated in the non-hazardous area or in an enclosure in type of explosion protection flameproof enclosure 'd' or increased safety 'e,' as applicable, suitable for the conditions of use and correctly installed.
- After the mounting of the external fan onto the motor axis (in the end application), the fan construction and the temperature class of the motor are to be determined in accordance with EN 60079-0:2009.
- Refer to manufacturer's Installation Instructions (Dwg. No. 574134103) for details on the motors flameproof joints.

[18] Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Annex III of 94/9/EC directive only. The manufacturer's Declaration of Conformity declares compliance with other relevant requirements and Directives.

Additional information

These devices have been additionally evaluated to EN 60079-0:2009 and EN 60079-1:2007.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

