

# EU-TYPE EXAMINATION CERTIFICATE

## Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- EU-Type Examination Certificate Number:** ITS12ATEX17702X      **Issue 01**
- Product:** BM6 DC Motor
- Manufacturer:** STS Motors
- Address:** Doulton Road, Cradley Heath, West Midlands, B64 5QB
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II of the Directive.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2018 and EN 60079-1:2014 except in respect of those requirements referred to within item 14 of the Schedule.
- If the sign "X" is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
- This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- The marking of the product shall include the following:

II 2 G Ex db IIB T4 Gb



-20°C ≤ Ta ≤ +58°C/+60°C\*

\* +58°C applicable for S1 – Continuous Run motor only

**Certification Officer:**

P Moss

**Date:**

29 January 2019

## SCHEDULE:

EU-Type Examination Certificate Number: ITS12ATEX17702X Issue 01

### 11. Description of Equipment or Protective System

The BM6 DC Motor is a permanent magnet motor suitable for use in potentially explosive atmospheres.

The motor comprises a fabricated rolled steel body having optional feet welded on, with cast iron end brackets secured by four-threaded tie rods. The body contains a four-pole rotor with four pole brushgear mounted to the non-drive-end end bracket. The non-drive-end end bracket has a detachable access cover. The motor has a body length of 181.0mm, and a length including the non-drive end section of 244.0mm. The drive end flange is not included in these measurements as it is interchangeable dependant on the end users requirements.

The motor has three flat faces on the non-drive end of the motor, two of which can have up to two entries for connections, the third remaining free for the nameplate which is to be riveted on.

The equipment has four flamepaths in total, one flanged flamepath at the non-drive end for the terminal plate cover, one cylindrical flamepath along the shaft and two spigot flamepaths at either end of the rolled steel body.

Internal and external earth points are provided.

Ambient range is dependent on output and duty cycle and is as follows:

Motor Type	Voltage	Output (kW)	Duty	Ambient temperature range
BM6	24	0.75	Continuous Run S1	-20°C to 58°C
BM6	24	1.2	15 minutes S2	-20°C to 60°C
BM6	24	1.0	30 minutes S2	-20°C to 60°C
BM6	24	0.9	60 minutes S2	-20°C to 60°C

### 12. Report Number

Intertek Report: 103678823CHE-001 Dated: 29 January 2019.

## SCHEDULE:

EU-Type Examination Certificate Number: ITS12ATEX17702X Issue 01

### 13. Special Conditions of Certification

(a). Special Conditions of Use

- Temperatures at the cable branching point can reach 140°C – suitably rated cable must be utilised.
- No modifications must be made to the flamepaths of the unit without consultation of the manufacturers drawing.
- Use only hex socket head fasteners with property class of 8.8 (carbon steel) for securing end cover.

(b). Conditions of Manufacture - Routine Tests

- None.

### 14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 103572484CHE-001 Dated: 29 January 2019.

### 15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
*BM Series ATEX Certification Drawings	A7663A	2	24/9/18
BM Type ATEX Certification Drawings	A7663B	1	15/8/12
BM Series ATEX Certification Drawings	A7663C	1	15/8/12
MB Series ATEX Certification Drawings	C7668	1	3/12/12
*Installation & maintenance instructions for BM type flameproof motors	D7716	1	16/01/2019

*Note: An \* is included before the title of documents that are new or revised.*

### 16. Details of Certificate changes

Issue No	Date	Details of change
Original Issue	21 January 2013	Original issue. Report No 100845813MAN-001 dated January 2013.
Issue 1	This Issue	Update from EN 60079-0:2012 to EN 60079-0:2018. Update from EN 60079-1:2007 to EN 60079-1:2014. Report No 103572484CHE-001 dated 29 January 2019