



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 ITS 18.0062X

Issue No: 0

Certificate history:

Issue No. 0 (2019-01-29)

Status: **Current**

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Date of Issue: **2019-01-29**

Applicant: **STS Motors**
Doulton Road
Cradley Heath
West Midlands
B64 5QB
United Kingdom

Equipment: **BM6 DC Motor**

Optional accessory:

Type of Protection: **Flameproof**

Marking:

Ex db IIB T4 Gb

-20°C to +58°C/+60°C*

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

*Approved for issue on behalf of the IECEx
Certification Body:*

P Moss

Position:

Certification Officer

*Signature:
(for printed version)*

Date:

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:

Intertek Testing & Certification Limited
ITS House, Cleeve Road,
Leatherhead,
Surrey, KT22 7SA
United Kingdom





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Manufacturer: **STS Motors**
Doulton Road
Cradley Heath
West Midlands
B64 5QB
United Kingdom

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 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 : 2017 Explosive atmospheres - Part 0: Equipment - General requirements

Edition:7.0

IEC 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition:7.0

*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:

[GB/ITS/ExTR18.0048/00](#)

Quality Assessment Report:

[GB/ITS/QAR14.0003/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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 dependant on output and duty cycle and is as follows:

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

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 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.

Annex:

[Annex to IECEX ITS 18.0062X Iss 0.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ITS 18.0062X	Issue No. 0
Annex No. 1		

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
*BM6 IECEx Certification Drawings	A7712A	1	24/09/18
*BM6 IECEx Certification Drawings	A7712B	1	24/09/18
*BM6 IECEx Certification Drawings	A7712C	1	24/09/18
*BM6 IECEx Certification drawing	C7713	1	24/09/18
*Installation & maintenance instructions for BM type flameproof motors	D7717	1	16/01/2019

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

Certificate issued by:



Total Quality. Assured.

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