

Intertek

In accordance with EC NOTICE TO STAKEHOLDERS
WITHDRAWAL OF THE UNITED KINGDOM AND EU RULES IN
THE FIELD OF INDUSTRIAL PRODUCTS dated 13 March 2020.

This issued certificate - Certificate No: ITS13ATEX17768X

1. EC-TYPE EXAMINATION CERTIFICATE

2. **Equipment or Protective System Intended for use in Potentially
Explosive Atmospheres Directive 94/9/EC**

3. EC-Type Examination Certificate Number

4. Equipment or Protective System:

5. Manufacturer:

6. Address:

FPS75 and FPS80 Starter Motors

Name: **Fabrizio Massei**

Position: **ATEX Certification Officer**

Address: **Dolphin Road,**

Shoreham-by-Sea,

Sussex,

BN43 6QG

Date: **14 December 2020**

7. This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8. Intertek Testing and Certification Limited, notified body number 0359, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 to the Directive.

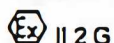
The examination and test results are recorded in confidential Intertek Report Ref G101083001 dated August 2013.

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

10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11. This EC-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment shall include the following :-



Ex d IIA T4 Gb Tamb -20°C to +45°C

Vijay K. Varma

V K Varma
Certification Officer
27 August 2013

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
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<http://www.intertek.com>

Registered No: 3272281 Registered office: Academy Place, 1-9 Brook Street, Brentwood, Essex,
CM14 5NQ

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13. SCHEDULE

14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS13ATEX17768X

15. DESCRIPTION OF EQUIPMENT OR PROTECTIVE SYSTEM

C7 Starter Motor (FPS75 Pyroban PN: 300825183):

The C7 starter motor is suitable for use on the CAT C7 engine (SAE1 flywheel housing) in hazardous areas where explosive gases occur. The unit is supplied in a mild steel flameproof enclosure and includes 3m of supply cable wired through Ex d glands and an Ex d blanking plug is used to blank out any unused entry points. The equipment has double pole wiring which is insulated from the chassis. The motor is rated at 24V, 8kW maximum

C9 Starter Motor (FPS80 Pyroban PN: 300825334):

The C9 starter motor is suitable for use on the CAT C9 engine in hazardous areas where explosive gases occur. The unit is supplied in a mild steel flameproof enclosure and includes 3m of supply cable wired through Ex d glands and an Ex d blanking plug is used to blank out any unused entry points. The motor is rated at 24V, 8kW maximum

16. REPORT NUMBER

Intertek Report Ref G101083001 dated August 2013.

17. SPECIAL CONDITIONS FOR SAFE USE

There are three types of special fasteners upon which the flameproof protection concept depends, their property class/yield stress's are:

M10 x 1.5 (or 5/8-11 UNC) shoulder bolt (3 off): Grade 12.9, 1220N/mm² min.

M8 cap screws (6 off): min tensile strength: 1034N/mm².

M6 cap screws (9 off for C7 and 10 off for C9): min tensile strength (grade 12.9) 1220N/mm².

The Starter Motor must not be turned on for more than 30 seconds as any one time. No more than 6 start attempts every 30 minutes.

18. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (EHSR'S)

The relevant EHSR's have been identified and assessed in Intertek Report Ref G101083001 dated August 2013.

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19. DRAWINGS

| Title: | Drawing No.: | Rev. Level: | Date: |
|-----------------------------------|--------------|-------------|------------|
| FPS75 Starter Motor – sheet 1 | C825008 | 1 | 2013/04/26 |
| FPS75 Starter Motor – sheet 2 | C825008 | 1 | 2013/04/26 |
| FPS80 Starter Motor - sheet 1 | C826290 | 1 | 2013/06/24 |
| FPS80 Starter Motor - sheet 2 | C826290 | 1 | 2013/06/24 |
| Label Certification FPS 80 CAT C9 | 300825861 | 2 | 2013/06/18 |
| Label Certification FPS 75 | 300825649 | 2 | 2013/08/28 |
| Label | 826291 | 1 | 2013/06/25 |

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

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