



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: Sira 01ATEX1267

4 Equipment: Type FPS24 Starter Motor

5 Applicant: Pyroban Limited

6 Address: Endeavor Works
7 Dolphin Road
Shoreham-by-Sea
West Sussex
BN43 6QG
UK

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment 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 examination and test results are recorded in confidential report number R53A8455A.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured with reference to the following documents:

EN 50014:1997 (amendments 1 & 2)
EN 50018:2000

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 in the schedule to this 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 shall include the following:



II 2G
IIB T5

Project Number 53A8455
Date 31 October 2002
C. Index 01

M D Shearman
Certification Manager

This certificate and its schedules may only be reproduced in its entirety and without change

Sira Certification Service

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 01ATEX1267

13 DESCRIPTION OF EQUIPMENT

The Type FPS24 Starter Motor Enclosure is rated at 12 Vd.c and up to 2.3 kW. The enclosure comprises a mild steel rear case and bolt-on aluminium end cover assembly, which houses a starter motor, solenoid and actuator assembly.

The output shaft passes through the end cover via a press-fit bronze (oilite) bush. Cabling to the equipment is by means of up to three threaded apertures in the enclosure wall for the fitting of suitably certified and dimensioned cable entry devices.

Design Options

Alternative end cover design to incorporate a roller bearing, outside the flamepath.

Alternative manufacture of the end cover in cast iron.

14 DESCRIPTIVE DOCUMENTS

Drawing No.	Rev.	Sheet	Date	Title
C0284	1 of 1	6	08 Oct 02	Starter Motor

14.2 Report No. R53A8455A

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

None

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in Report No. R53A8455A.

17 CONDITIONS OF CERTIFICATION

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of SCS Certificates.

17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

17.3 Each enclosure shall be subjected to a routine overpressure of at least 3.81 bar for at least 10 s, as required by clause 16.1 of EN 50018:1994. There shall be no permanent deformation or damage to the enclosure.

Date 31 October 2002

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