



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: Sira 02ATEX3410U

4 Component: RSV Motor Anti-Condensation Heaters

5 Applicant: Flexelec S.A.

6 Address: 10 Rue des Frères Lumière  
Z.A. du Bois Rond  
69720 Saint Bonnet de Mure  
France

7 This component 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 component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of component 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 R53A9193A.

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

EN 50014:1997 (+A1 and A2)  
EN 50019:2000

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any special conditions for safe use are listed in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

12 The marking of the component shall include the following:

 II 2 G  
EEx e II

Project Number 51V10149  
Date 31 January 03  
Re-issued 16 April 2003  
C. Index 06

C Ellaby  
Certification Officer

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**Sira Certification Service**

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**SCHEDULE**

**EC TYPE-EXAMINATION CERTIFICATE**

Sira 02ATEX3410U

Re-issued 16 April 2003

To permit the re-adjustment of the list of descriptive documents to correct a remark noted during audit number AX4562.

**13 DESCRIPTION OF COMPONENT**

The RSV Motor Anti-Condensation Heaters are rated at 110/115 V or 230/240 V ac, with rated outputs of 25 W to 100 W depending on length.

The heaters are designed to be installed on the end windings of electric motors prior to the application of varnish insulation to the wound stator. Each heater comprises a spiral resistance wire wound on a former. Cold tails are connected to the resistance wire and the assembly is covered with insulation and an outer fibreglass braid.

The following information may be used for reference when determining the temperature classification of a machine in which the heaters are installed. The heaters have been tested to determine maximum surface temperature under anticipated operating conditions and are suitable for use in motors with a T3 temperature class. Two types were tested, which cover the operating characteristics of the range.

During testing the stator windings were de-energised before the heaters were energised.

Item	0.3 m, 25 W heater >58.82 W/m to 83.3 W/m	All other heaters ≤58.82 W/m
Local ambient around heater	109.1°C	108°C
Winding surface temperature (at end of heat run)	144.1°C	130°C
Maximum heater surface temperature	173°C	154.3°C

**14 DESCRIPTIVE DOCUMENTS**

Drawing No.	Sheet	Rev.	Date	Title
CEX03.001	1 to 4	00	06 Jan 03	Anti-condensation heaters RSV

14.2 Report No. R53A9193A

**15 SPECIAL CONDITIONS FOR SAFE USE**

15.1 An electric strength test in accordance with EN 50019:2000 clause 7.1 shall be carried out on all heaters after they are incorporated into an electric machine.

**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. R53A9193A.

**17 CONDITIONS OF CERTIFICATION**

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira 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.

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## EC TYPE-EXAMINATION CERTIFICATE VARIATION

<b>CERTIFICATE NUMBER</b>	Sira 02ATEX3410U	Dated	31 January 2003
		Reissued	16 April 2003
<b>VARIATION NUMBER</b>	1 (ONE)	Dated	22 June 2006

### VARIATION TO COMPONENT

To record:

- 1 That the RSV Motor Anti-Condensation Heaters comply with the requirements of EN 60079-0:2004 and EN 60079-7:2003

### DESCRIPTIVE DOCUMENTS

None.

### ADDITIONAL CONDITIONS OF CERTIFICATION

None.

**File No.** 51A15276

**Report No.** R51A15276A

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Page 1 of 1

Form 9206 Issue 3

**M D Shearman**  
General Manager

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