1 # EU - TYPE EXAMINATION CERTIFICATE

2 **Component Intended for use on/in an Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**

3	EU - Type Examination Certificate Number:	**SGS20ATEX0120U – Issue 1**
4	Product:	**FS32-XE Surge Protection Device**
5	Manufacturer:	**Eaton Electric Limited**
6	Address:	**Great Marlings, Butterfield, Luton, Bedfordshire, LU2 8DL**

7 This re-issued certificate extends EU Type Examination Certificate No. SGSyyATEXnnnnU to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this 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 to the Directive.

The examination and test results are recorded in confidential Report No. See Certificate History

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-7:2015 EN 60079-18:2015+A1:2017

except in respect of those requirements listed at item 18 of the Schedule.

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

11 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.

12 The marking of the product shall include the following:

Ⓔx II 2G Ex eb mb IIC Gb (-40°C < Ta +80°C)

SGS Fimko Oy Customer Reference No. **0703** Project File No. **18/0549**

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13 # Schedule

14 ## Certificate Number SGS20ATEX0120U – Issue 1

15 Description of Product

The FS32-XE Surge Protection Devices are designed to provide protection for sensitive electronic equipment, and it is intended to be mounted within a Hazardous Area.

The component comprises a diode bridge, two 3-terminal gas discharge tubes, a pair of varistors and a fuse, all mounted on a printed circuit board. This assembly is fully encapsulated within a plastic enclosure, which is provided with three input terminals (+, S & -) in addition to a mounting foot, which provides the earth connection.

Input: Field Terminals (+, S, -)

Max rated input: 36Vdc, 2A

Output: Surge Protected Terminals (+, S, -)

As input.

16 Report Number

See Certificate History

17 Schedule of Limitations

1. The FS32-XE demonstrates a surface temperature rise of <5°C when operating in the most onerous operating conditions. A Temperature Classification of T4 in a +80°C ambient would be considered applicable.
2. The FS32-XE is suitable for use within equipment with an Equipment Protection Level of Gb. The FS32-XE may also form part of a Group III circuit within equipment with an Equipment Protection Level of Db or be used within equipment supplying equipment located within a Group III area (i.e. Equipment Protection Level of [Db]).
3. The FS32-XE must be installed in equipment such that it is afforded a degree of protection of at least IP54 in accordance with EN IEC 60079-0, EN 60079-7 and EN 60529.
4. The equipment in which the FS32-XE is installed will not be capable of withstanding a 500Vac isolation test voltage between all inputs to earth. This must be taken into account during installation.
5. The PCB Header connector must be mated with an appropriately certified connector. See manufacturer's instructions.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product:

Clause	Subject	Compliance
1.2.7	LVD type requirements	Manufacturer responsibility
1.2.8	Overloading of equipment (protection relays, etc.)	User/Installer responsibility
1.4.1	External effects	User/Installer responsibility
1.4.2	Aggressive substances, etc.	User/Installer responsibility

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
CIFS32-XE-1	1 – 7	2	12-July-21	Certification Drawing – FS32-XE

This drawing is common to, and held with, IECEx BAS 20.0079U.

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
None				

20 Certificate History

Certificate No.	Date	Comments
SGS20ATEX0120U	11 December 2020	The release of the prime certificate. The associated test and assessment against the requirements of EN IEC 60079-0:2018, EN 60079-7:2015 and EN 60079-18:2015+A1:2017 is documented in Test Report No. GB/BAS/ExTR20.0198/00.
SGS20ATEX0120U Issue 1	18 August 2021	To correct the code by adding the EPL Gb, including on certification label.
For drawings applicable to each issue, see original of that issue.		