1 # EU - TYPE EXAMINATION CERTIFICATE

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

3 EU - Type Examination Certificate Number: **Baseefa13ATEX0023X – Issue 1**

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **SSP***X Series Surge Protection Devices**

5 Manufacturer: **Eaton Electric Limited**

6 Address: **Great Marlings, Butterfield, Luton, Bedfordshire, LU2 8DL**

7 This re-issued certificate extends EC Type Examination Certificate No. Baseefa13ATEX0023X 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 Baseefa, Notified Body number 1180, 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 60079-0: 2012 + A11: 2013** **EN 60079-11: 2012**

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

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

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 1G Ex ia IIC T4 Ga (-30°C ≤ Ta ≤ 80°C/60°C/40°C) See Schedule.**

SGS Baseefa Customer Reference No. **0703** Project File No. **16/0371**



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TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa13ATEX0023X – Issue 1**

**15 Description of Product**

The range designated as the SSP***X Series Surge Protection Devices are designed to protect instrumentation and electronic systems from surges and transients conducted through signal cables.

The apparatus comprises a printed circuit board (p.c.b.) upon which are mounted all of the electrical components. The units use three terminal gas discharge tubes, diodes, zener diodes, varistors, sidactors and resistors for operational purposes and may be optionally encapsulated. The p.c.b. is housed within a plastic enclosure with two groups of two terminals (1 & 2 and 3 & 4) at either end of the enclosure, for the connection of the interconnecting cables. An earth shoe is fitted to the apparatus to enable connection of an earth bonding conductor with a cross sectional area of at least 4mm².

The SSP***X Series comprises six units SSP07X, SSP16X, SSP32X, SSP55X, SSP75X and SSP200X. The "**" in the apparatus title indicates the nominal voltage the apparatus is designed to work at. The working voltage and operating voltage of the devices are not critical for the safety assessment.

SSP***X Surge Protection Devices

All units are marked Ex ia IIC T4 Ga (-30°C ≤ Ta ≤ 80°C/60°C/40°C) See below.

Input : Field Terminals

| | | | |
|---|---|---|---|
| SSP07X | $U_i = 7V$ | $I_i = 150mA$ | $P_i = 1W/1.2W/1.3W$ |
| SSP16X | $U_i = 16V$ | $I_i = 150mA$ | $P_i = 1W/1.2W/1.3W$ |
| SSP32X | $U_i = 32V$ | $I_i = 150mA$ | $P_i = 1W/1.2W/1.3W$ |
| SSP55X | $U_i = 55V$ | $I_i = 150mA$ | $P_i = 1W/1.2W/1.3W$ |
| SSP75X | $U_i = 75V$ | $I_i = 150mA$ | $P_i = 1W/1.2W/1.3W$ |
| SSP200X | $U_i = 200V$ | $I_i = 150mA$ | $P_i = 1W/1.2W/1.3W$ |

$C_i = 0$

$L_i = 0$

Output : Surge Protected Terminals

$U_o \leq U_i$

$I_o \leq I_i$

$P_o \leq P_i$

The Surge Protected Devices are passive and therefore the surge protected output parameters are equal to the parameters of the device connected to the field terminals.

**16 Report Number**

GB/BAS/ExTR16.0329/00

**17 Specific Conditions of Use**

1) The plastic enclosure may present an electrostatic risk and must only be cleaned with a damp cloth.

2) The SSP***X Series Surge Protection Devices will not meet the 500V insulation requirements to earth, therefore suitable precautions must be taken when installing the apparatus.

**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, and conformity is demonstrated in the report:

| Clause | Subject |
|---|---|
| 1.4.1 | External effects |
| 1.4.2 | Aggressive substances, etc. |

## 19 Drawings and Documents

New drawings submitted for this issue of certificate:

| Number | Sheet | Issue | Date | Description |
|---|---|---|---|---|
| 1100549 | 1-8 | C | 8.16 | SSP***X Series Certification Drawings for ATEX |

The above drawing is associated and held with IECEx Certificate No. IECEx BAS 13.0017X Iss. 2

Current drawings which remain unaffected by this issue:

| Number | Sheet | Issue | Date | Description |
|---|---|---|---|---|
| None | | | | |

## 20 Certificate History

| Certificate No. | Date | Comments |
|---|---|---|
| Baseefa13ATEX0023X | 4 March 2013 | The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0: 2012 and EN 60079-11: 2012 is documented in Test Report No. GB/BAS/ExTR13.0034/00, Project File No. 13/0044. |
| Baseefa13ATEX0023X Issue 1 | 12 June 2017 | This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms the current design meets the requirements of EN 60079-0: 2012 + A11: 2013.<br><br>The certificate also permits the manufacturer's name and address to be changed on the certificate and the equipment marking. No other changes are made to the equipment design.<br><br>The associated assessment is documented in Certification Report No. GB/BAS/ExTR16.0329/00, Project File No. 16/0371. |
| For drawings applicable to each issue, see original of that issue. | | |