

# 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 **Baseefa06ATEX0036X – Issue 5**  
Number:

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: **IOP32 Series Surge Protection Devices**

5 Manufacturer: **Eaton Electric Limited**

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

7 This re-issued certificate extends EC Type Examination Certificate No. Baseefa06ATEX0036X 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.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

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 60079-11: 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:

 **II 1G Ex ia IIC T4 Ga (-30°C ≤ T<sub>a</sub> ≤ See Schedule)**

SGS Fimko Oy Customer Reference No. **0703**

Project File No. **23/0177**

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Mikko Välimäki  
Authorised Signatory for SGS Fimko Oy

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13 **Schedule**

14 **Certificate Number Baseefa06ATEX0036X – Issue 5**

15 **Description of Product**

The IOP32 Series Surge Protection Device is designed to provide protection for sensitive electronic equipment and is intended to be mounted within a Hazardous Area. The break-over voltage is 90V. The unit has an earth connection which utilises the mounting foot.

The equipment comprises two series resistors, a 3-terminal gas discharge tube and a silicon avalanche diode mounted on a printed circuit board. The printed circuit board assembly is housed within an MTL7700 Series plastic enclosure, which is provided with two input and two output terminals in addition to the base spring, which provides the earth connection and the mounting of the units on a DIN earthing rail. The lower part of the enclosure is encapsulated to consolidate the mounting arrangement.

The parameters for the IOP32 Surge Protection Devices are:-

**Input : Field Terminals J1-1/2**

$$U_i = 60V$$

$$P_i = 1W \quad (-30^{\circ}C \leq T_a \leq 80^{\circ}C) \text{ or}$$

$$P_i = 1.2W \quad (-30^{\circ}C \leq T_a \leq 60^{\circ}C) \text{ or}$$

$$P_i = 1.3W \quad (-30^{\circ}C \leq T_a \leq 40^{\circ}C)$$

$$C_i = 0$$

$$L_i = 0$$

**Output : Surge Protected Terminals J3-3/4**

$$U_o = U_i$$

$$I_o = I_i$$

$$P_o = P_i$$

16 **Report Number**

See Certificate History

17 **Specific Conditions of Use**

1. The plastic enclosure may present an electrostatic risk and must not be rubbed with a dry cloth or cleaned with solvents.
2. The IOP32 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:

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
CIOP32-2*	1 of 7	1	12-May-23	IOP Series Certification Drawing for ATEX
CIOP32-2*	2 of 7	1	12-May-23	IOP Series Electrical assembly & components
CIOP32-2*	3 of 7	1	12-May-23	IOP Series Printed Circuit Board
CIOP32-2*	4 of 7	1	12-May-23	IOP Series Internal Components
CIOP32-2*	5 of 7	1	12-May-23	IOP Series Mechanical assembly
CIOP32-2*	6 of 7	1	12-May-23	IOP32 Single channel external case
CIOP32-2*	7 of 7	1	12-May-23	IOP Series Product Labelling

Drawings marked \* are associated with Baseefa06ATEX0036X and IECEx BAS 21.0030X.

Current drawings which remain unaffected by this issue:

None

## 20 Certificate History

Certificate No.	Date	Comments
Baseefa06ATEX0036X	28 February 2006	The release of the prime certificate. The associated test and assessment against the requirements of EN 50014:1997; EN 50020:2022; & EN 60079-26:2004 is documented in Test Report No. 06(C)0104, held with Baseefa06ATEX0036X.
Baseefa06ATEX0036X 1	5 March 2012	To make the existing design of IOP32D Series Surge Protection Devices obsolete for future production, and replace this with the IOP32D Dual Channel IS Surge Protection Device, Baseefa12ATEX0066X, which is designed such that the channels may be considered as separate intrinsically safe circuits. This change has been reflected in section 15 above.  Also to confirm that the single channel IOP32 Series Surge Protection Device complies with the requirements of IEC 60079-0:2011 Ed 6 and EN 60079-11:2012 and may be marked with the code:- $\text{Ex II 1G Ex ia IIC T4 Ga}$ for the Ambient Temperature limited depending on the input power as stated on the original certificate.  The associated assessment is documents in Certification Report No. 12(C)0128, held with Baseefa12ATEX0066X
Baseefa06ATEX0036X/2	29 May 2014	To permit the identical circuit for the IOP32 Single Channel Surge Protection Device to be mounted on an alternative smaller single channel printed circuit board. This change does not affect the original assessment.  The associated assessment is documents in Certification Report No. 04(C)0430, held with Baseefa12ATEX0066X.
Baseefa06ATEX0036X Issue 3	22 November 2017	This issue of the certificate incorporate previously issues primary & supplementary certificates into one certificate and confirms the current designs meets the requirements of EN 60079-0:2012 + A11: 2013 & EN 60079-11:2012.  The certificate also permits the manufacturer's name to be changed on page 1 of the certificate and on the equipment marking.  The associated assessment is documented in Certification Report No. GB/BAS/ExTR16.0288/00, held with IECEx BAS 07.0045X

<b>Certificate No.</b>	<b>Date</b>	<b>Comments</b>
Baseefa06ATEX0036X Issue 4	22 August 2022	This issue of the certificate confirms the current designs meet the requirements of EN IEC 60079-0:2018 and permits drawing changes to the PCB that do not affect the original assessment.  The associated assessment is documented in Report No. GB/BAS/ExTR22.0103/00, Project No 22/0277.
Baseefa06ATEX0036X Issue 5	30 May 2023	To permit drawing changes to the PCB that do not affect the original assessment.  The associated assessment is documented in Report No. GB/BAS/ExTR23.0023/00, Project No 23/0177.
For drawings applicable to each issue, see original of that issue.		