



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx BAS 15.0056X

Issue No: 1

Certificate history:

Status: **Current**

Issue No. 1 (2017-11-22)

Issue No. 0 (2015-08-13)

Date of Issue: **2017-11-22**

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Applicant: **Eaton Electric Limited**
Great Marlings
Butterfield
Luton
Bedfordshire
LU2 8DL
United Kingdom

Equipment: **TP48 and TP32 Range of Surge Protection Devices**

Optional accessory:

Type of Protection: **Flameproof**

Marking: **Ex db IIC T6 Gb T_{amb} -40°C to + 70°C**


Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Technical Manager

Signature:
(for printed version)


22-11-17

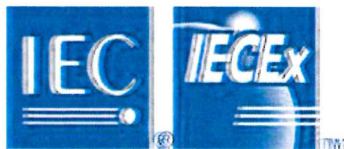
Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom





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Manufacturer: **Eaton Electric Limited**
Great Marlings
Butterfield
Luton
Bedfordshire
LU2 8DL
United Kingdom

Additional Manufacturing location(s):

MTL Instruments PVT Limited

No 3 Old Mahabalipuram Road, Sholinganallur, Chennai, 600 119
India

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements

Edition:6.0

IEC 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

Edition:7.0

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[GB/BAS/ExTR15.0117/00](#)

[GB/BAS/ExTR16.0289/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0022/07](#)

[GB/BAS/QAR07.0017/06](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The TP48 and TP32 range of Surge Protection Devices comprises a solid drawn hexagon bar of stainless steel drilled along its axis to accept a printed circuit board with up to five permanently attached cables. The printed circuit board is potted into the housing which has a choice of the male thread form for attachment purposes. The designation of the surge protection units depends upon external thread form, N, I or G for 1/2" NPT, 20mm, and G1/2 respectively, and the internal component values.

The TP48 and TP32 devices are rated at 35Vd.c. and 32Vd.c. respectively, with a surge capacity up to 10kA for 20 milli-seconds

Internal and external earth facilities are not provided.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The permanently attached cables shall be suitably protected against pulling, mechanical damage and terminated within a terminal or junction facility suitable for the conditions of use.
2. These devices are not provided with an external connection facility for an earthing or bonding conductor. It is the user's responsibility to ensure adequate earth continuity via the mounting arrangements.
- 3 This equipment is also afforded Intrinsically Safe Certification to IECEx BAS 07.0045X and hence the equipment is dual marked. It is the user's responsibility to determine the protection concept to be applied and permanently mark the equipment in the space provided for guidance in installation and maintenance.
- 4 If attached to a flameproof enclosure the surge protectors shall be provided with a high strength locking compound on the mounting thread.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 1.1

To permit the change of company name and associated marking changes.

Variation 1.2

To confirm the current designs of the TP48 & TP32 Range of Surge Protection Devices meet the requirements of IEC 60079-1: 2014.

ExTR: **GB/BAS/ExTR16.0289/00**

File Reference: **16/0371**