

# CERTIFICATE OF CONFORMITY



- HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
- Certificate No:** FM16US0441X
- Equipment:** Model SSPaX Surge Protection Devices  
**(Type Reference and Name)**
- Name of Listing Company:** Eaton Electric Limited
- Address of Listing Company:** Great Marlings, Butterfield  
Luton, Bedfordshire, LUS 8DL  
United Kingdom
- The examination and test results are recorded in confidential report number:  
  
3048513 dated 12<sup>th</sup> July 2013
- FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:  
  
FM Class 3600:2011, FM Class 3610:2010, FM Class 3611:2004, FM Class 3810:2005,  
ANSI/ISA 60079-0:2009, ANSI/ISA 60079-11:2011, ANSI/ISA 61010.1 2004
- If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
- This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
- Equipment Ratings:**  
  
Intrinsically Safe for use in Class I, Division 1, Groups A, B, C, and D; Class I Zone 0, Group IIC; Class I Zone 0 Group IIB in accordance with manufacturers Control Drawing; Nonincendive for Class I, Division 2, Groups A, B, C, and D; Class I Zone 2, Group IIC Hazardous (Classified) Indoor Locations.
- The marking of the equipment shall include:

**Certificate issued by:**

J. E. Marquedant  
Manager, Electrical Systems

9 December 2016

Date

To verify the availability of the Approved product, please refer to [www.approvaiguide.com](http://www.approvaiguide.com)

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA  
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: [information@fmapprovals.com](mailto:information@fmapprovals.com) [www.fmapprovals.com](http://www.fmapprovals.com)

# SCHEDULE



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IS / I / 1 / ABCD / T4 Ta = -30°C to 60°C – 801758; Entity  
I / 0 / AEx ia / IIC / T4 Ta = -30°C to 60°C – 801758; Entity  
I / 0 / AEx ia / IIB / T3 Ta = -30°C to 60°C – 801758; Entity  
NI / I / 2 / ABCD / T6 Ta = -30°C to 60°C  
I / 2 / IIC / T6 Ta = -30°C to 60°C.

## 12. Description of Equipment:

**General** – SSPxxX Series Surge Protection Devices are designed to attenuate voltage and current spikes that are commonly experienced in industrial environments. It protects the electronic circuitry in process environments and comes in a series of voltages of 7, 16, 32, 55, 75, and 200 VDC.

**Construction** – The enclosure consists of a two part plastic case that houses the electronics and is filled with an encapsulated compound Epoxylite EIP4236. The circuitry has two dedicated two pin connectors for input and output connections. There is a grounding/mounting clip used to mount to a DIN rail.

**Ratings** – The ambient operating temperature of SSPxxX Series Surge Protection Devices is -30°C to +60°C.

### Model SSPaX Surge Protection Devices

a = Model: 07, 16, 32, 55, 75, 200

Entity Parameters:

Entity Parameter Model 7:  $U_i = 7V$ ,  $I_i = 150mA$ ,  $P_i = 1.2W$ ,  $C_i = 0$ ,  $L_i = 0$

Entity Parameter Model 16:  $U_i = 16V$ ,  $I_i = 150mA$ ,  $P_i = 1.2W$ ,  $C_i = 0$ ,  $L_i = 0$

Entity Parameter Model 32:  $U_i = 32V$ ,  $I_i = 150mA$ ,  $P_i = 1.2W$ ,  $C_i = 0$ ,  $L_i = 0$

Entity Parameter Model 55:  $U_i = 55V$ ,  $I_i = 150mA$ ,  $P_i = 1.2W$ ,  $C_i = 0$ ,  $L_i = 0$

Entity Parameter Model 75:  $U_i = 75V$ ,  $I_i = 150mA$ ,  $P_i = 1.2W$ ,  $C_i = 0$ ,  $L_i = 0$

Entity Parameter Model 200:  $U_i = 200V$ ,  $I_i = 150mA$ ,  $P_i = 1.2W$ ,  $C_i = 0$ ,  $L_i = 0$

## 13. Specific Conditions of Use:

1. *The SSP series shall be installed in compliance with the enclosure, mounting, and spacing, and segregation requirement of the ultimate application.*

## 14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

## 15. Schedule Drawings

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A copy of the technical documentation has been kept by FM Approvals.

## 16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
12 <sup>th</sup> July 2013	Original Issue.
9 <sup>th</sup> December 2016	Supplement 2: Report Reference: – RR207224 dated 9 <sup>th</sup> December 2016 Description of the Change: Company name change. Reformat of Certificate.

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