



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.:	IECEx BAS 16.0074X	Page 1 of 5	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2024-09-09)
Date of Issue:	2024-09-27		Issue 1 (2016-11-02)
Applicant:	Eaton Electric Limited Great Marlings Butterfield Luton Bedfordshire LU2 8DL United Kingdom		Issue 0 (2016-09-09)
Equipment:	FCS-9504-XXX 4 Spur Megablock Enclosure		
Optional accessory:			
Type of Protection:	Flameproof, Increased Safety, Encapsulation		
Marking:	Ex db e mb IIC T4 Gb -40°C ≤ Ta ≤ +60°C		

Approved for issue on behalf of the IECEx
Certification Body:

P Oates

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

27/09/2024

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

SGS UK 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

Manufacturing
locations:

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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 Reports:

[GB/BAS/ExTR16.0179/00](#)
[GB/SGS/ExTR24.0128/00](#)

[GB/BAS/ExTR16.0287/00](#)

[GB/BAS/ExTR24.0004/00](#)

Quality Assessment Report:

[GB/BAS/QAR07.0017/11](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The FCS-9504-XXX (where XXX can include 182-212) 4 Spur Megablock Enclosure is an assembly of Ex certified components. The equipment is fitted with one F2XX-XE MTL Relcom Megablock. The enclosure ((L x W x H) 260mm x 260mm x 160mm) is manufactured from sheet steel metal and has an IP66 ingress protection rating. The enclosure is populated with terminal blocks, a surge protector and a Megablock; all of which are Ex certified.

The enclosure is afforded certificate number IECEx BAS 17.0081U and is marked Ex eb IIC Gb. One face of the external wall permits the following entries, IP66 rated breather/drain, up to 8 off Ex e certified accessories which include; cable glands, thread adaptors and or blanking elements.

The internal construction of the equipment contains the following specific components:

- 1 off Ex mb certified 4 way type F245-XE or F247-XE Megablocks currently afforded certificate number IECEx DEK 16.0036U.
- Up to 6 off Ex e terminals of type WDU2.5 currently afforded certificate number IECEx ULD 14.0005U.
- Up to 3 off Ex e terminals of type WDK2.5V currently afforded certificate number IECEx ULD 15.0003U
- 1 off Ex db certified surge protector currently afforded certificate number IECEx BAS 15.0056X.

The equipment has two terminal block divisions, TB1 and TB2. TB1 accommodates the WDU2.5 terminals and TB2 the WDK2.5V type terminals. The megablock conductors are connected to the feed through terminal blocks on TB2. The surge protector may be fitted as an option, when fitted the conductors are connected and secured to terminal blocks on TB2. Additionally the megablock may be fitted with an optional terminator of type FCS-MBT-XE which is certified under the same certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1) Models with a hinged lid shall only be mounted in a vertical orientation, and care is required during installation and when opening the hinged lid, to ensure the enclosure does not distort.
- 2) Cable entry holes shall be fitted with "eb" equipment certified cable glands. The operating temperature range and ingress protection rating of the equipment is limited to those of the fitted glands.
- 3) Unused entry holes shall be fitted with "eb" equipment certified stopping plugs. The operating temperature range and ingress protection rating of the equipment is limited to those of the fitted stopping plugs.
- 4) Only breather/drain devices that are "eb" equipment certified may be fitted. They shall be suitable for the enclosure wall thickness to ensure draining can occur. The operating temperature range and ingress protection rating of the equipment is limited to that of the fitted breather/drain device.
- 5) Only adaptor/reducer devices that are "eb" equipment certified may be fitted. The operating temperature range and ingress protection rating of the equipment is limited to those of the fitted adapter/reducer devices.
- 6) Unused terminals inside the equipment shall be tightened.



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Equipment (continued):

The equipment is suitable for use in an ambient temperature of -40°C to +60°C. The power ratings of the equipment are 30V d.c, 1.5A. The internal components within the enclosure are listed on the table below:

Item	Certificate	Marking	Standards
Enclosure Type XL	IECEX BAS 15.0071U	Ex eb IIC Gb	IEC 60079-0: 2017 7 th Edition IEC 60079-7: 2017 Edition 5.1
Fieldbus XE Megablock/ FCS-MBT-XE Terminator (optional)	IECEX DEK 16.0036X	Ex eb mb IIC T4 Gb -45°C to +70°C	IEC 60079-0:2011 6 th Edition IEC 60079-7:2015 5 th Edition IEC 60079-18:2014 4 th Edition
WDK2.5V Feed Through Terminal Blocks	IECEX ULD 15.0003U	Ex eb IIC	IEC 60079-0:2011 6 th Edition IEC 60079-7:2007 4 th Edition
WDU2.5 Feed Through Terminal Blocks	IECEX ULD 14.0005U	Ex eb IIC	IEC 60079-0:2011 6 th Edition IEC 60079-7:2007 4 th Edition
Surge Protection Units Fieldbus Surge Protector Type TP32	IECEX BAS 15.0056X	Ex db IIC T6 Gb T _{amb} -40°C to +70°C.	IEC 60079-0:2011 6 th Edition IEC 60079-1:2014 7 th Edition



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) Variation 3.1

Corrected the equipment to FCS-9504-XXX from FCS-9502-XXX.

Variation 3.2

To update the references to IECEx DEK 16.0036X to IECEx DEK 16.0036U.

ExTR: **GB/BAS/ExTR24.0004/00**

File Reference: **24/0221**