

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: **Baseefa16ATEX0098X**

4 Product: **FCS-9504-182 4 Spur Megablock Enclosure**

5 Manufacturer: **Eaton Electric Limited**

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

7 This product and any acceptable variation thereto is specified in the schedule 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. **GB/BAS/ExTR/16.0179/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013 EN 60079-1:2014 EN 60079-7:2007 EN 60079-18:2009

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 2 G Ex db e mb IIC T4 Gb -40°C ≤ Ta ≤ +60°C

SGS Baseefa Customer Reference No. **703**

Project File No. **16/0509**

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SGS Baseefa Limited

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail baseefa@sgs.com web site www.sgs.co.uk/baseefa

Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN



R S SINCLAIR
TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

14

Certificate Number Baseefa16ATEX0098X

15 Description of Product

The FCS-9504-182 Megablock 4 Spur junction box 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 equipment is populated with terminal blocks, a surge protector and a Megablock, all of which are Ex certified.

The enclosure is currently afforded certificate number BVS13ATEX014U and is marked Ex II 2 G Ex e IIC Gb. One face of the external wall permits cable entries. An IP66 Ex certified breather/ drain (factory fitted) may be fitted together with a combination of up to 8 off either Ex e certified accessories such as 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 KEMA05ATEX2006. Additionally the Megablock may be fitted with an optional terminator of type FCS-MBT-XE which is certified under the same certificate.
- Up to 6 off Ex e terminal of type WDU2.5 currently afforded certificate number DEMKO 14ATEX1338U.
- Up to 3 off Ex e terminals of type WDK2.5V currently afforded certificate numbers DEMKO 15ATEX1346U or KEMA 98 ATEX1687U.
- 1 off Ex db certified surge protector currently afforded certificate number Baseefa04ATEX0053X.

The equipment has two terminal block divisions, TB1 and TB2. TB1 accommodates the WDU2.5 terminals and TB2 the WDK type terminals. The megablock conductors are connected to the feed through to 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.

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 at 1.5V. The internal parts within the enclosure are listed on the table below:

Item	Certificate	Code	Standards
Enclosure type N-TB...	BVS13ATEX E 014U	Ex II 2 G Ex e IIC Gb Ex II 2D Ex tb IIC Db	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2009
Fieldbus XE Megablock FCS-MBT-XE Terminator (optional)	KEMA05ATEX2006	Ex II 2 G Ex e mb IIC T4 Gb	EN 60079-0:2012 EN 60079-7:2007 EN 60079-18:2009
WDK2.5V Feed Through Terminal Blocks	KEMA98ATEX1687U	Ex II 2 G D Ex e II	EN 60079-0:2004 EN 60079-7:2003
	DEMKO15ATEX1346U		
WDU2.5 Feed Through Terminal Blocks	DEMKO14ATEX1338U	Ex II 2 GD Ex eb IIC	EN 60079-0:2012+A11:2013 EN 60079-7:2007
Surge Protection Units Fieldbus Surge Protector Type TP32	Baseefa04ATEX0053X	Ex II 2 G Ex db IIC T6 Gb T _{amb} -40°C to +70°C.	EN 60079-0:2012+A11:2013 EN 60079-1:2015

Table 1 List of Ex Certified components

16 Report Number

GB/BAS/ExTR/16.0179/00

17 Specific Conditions of Use

1. The equipment shall be effectively earth bonded prior to use.
2. Unused terminals shall be tightened.
3. The enclosure shall not be fitted with flat gasket 2 as detailed on IECEx BVS 13.0026U.
4. The lid must be opened and closed in a vertical position so that the hinges are surely protected against excessive mechanical forces.
5. Only suitably Ex certified cable glands, blanking elements and or thread adapters may be fitted on the enclosure.

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
1.2.3	Enclosed structures and prevention leaks
1.2.4	Dust deposits
1.2.7	Protection against other hazards
1.3.5	Hazards arising from pressure compensation operations
1.6.1	Manual Override to ensure safety of systems
1.6.3	Hazards arising from power failure
1.6.5	Placing of Warning Devices
3	Protective Systems

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
CI9500-11	1 to 2	1	20.07.16	FCS-9504-XXX PROCESS JUNCTION BOX ASSEMBLY – 4 SPUR
CI9500-12	1	1	5.7.16	FCS-9504-XXX PROCESS JUNCTION BOX CERTIFICATION LABEL

These drawings are common to and are held with IECEx BAS 16.0074X.

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: **Baseefa16ATEX0098X – 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: **FCS-9504-XXX 4 Spur Megablock Enclosure**

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. **Baseefa16ATEX0098X** 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. **GB/BAS/ExTR16.0287/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012+A11: 2013 EN 60079-1: 2014 EN 60079-7: 2007 EN 60079-18: 2009

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 2 G Ex db e mb IIC T4 Gb -40°C ≤ Ta ≤ +60°C**

SGS Baseefa Customer Reference No. **703**

Project File No. **16/0729**

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SGS Baseefa Limited


Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601

e-mail baseefa@sgs.com web site www.sgs.co.uk/baseefa

Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN


R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

14

Certificate Number Baseefa16ATEX0098X – Issue 1

15 Description of Product

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 ((Lx W xH) 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 BVS 13.0026U and is marked Ex e IIC Gb. One face of the external wall permits cable entries. An Ex certified IP66 rated breather/drain (factory fitted) may be fitted together with a combination of up to 8 off Ex e certified accessories which can 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 of type F245-XE or F247-XE Megablocks currently afforded certificate number IECEX DEK 16.0036X.
- Up to 6 off Ex e terminals of either 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 protectors 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 WDK type terminals. The Megablock conductors are connected to the feed through to 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.

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 at 1.5V. The internal parts within the enclosure are listed on the table below:







Item	Certificate	Code	Standards
Enclosure type N-TB...	BVS13ATEX E 014U	 II 2 G Ex e IIC Gb  II 2D Ex tb IIIC Db	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2009
Fieldbus XE Megablock FCS-MBT-XE Terminator (optional)	KEMA05ATEX2006	 II 2 G Ex e mb IIC T4 Gb	EN 60079-0:2012 EN 60079-7:2007 EN 60079-18:2009
WDK2.5V Feed Through Terminal Blocks	KEMA98ATEX1687U	 II 2 G D Ex e II	EN 60079-0:2004
	DEMKO15ATEX1346U		EN 60079-7:2003
WDU2.5 Feed Through Terminal Blocks	DEMKO14ATEX1338U	 II 2 GD Ex eb IIC	EN 60079-0:2012+A11:2013 EN 60079-7:2007
Surge Protection Units Fieldbus Surge Protector Type TP32	Baseefa04ATEX0053X	 II 2 G Ex db IIC T6 Gb T _{amb} -40°C to +70°C.	EN 60079-0:2012+A11:2013 EN 60079-1:2014

Table 1 List of Ex Certified components Variation 1.3

16 Report Number

GB/BAS/ExTR16.0287/00

17 Specific Conditions of Use

None additional to those previously listed.

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: GB/BAS/ExTR16.0287/00

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
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None

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
CI9500-11	1 to 2	1	20.07.16	FCS-9504-XXX PROCESS JUNCTION BOX ASSEMBLY – 4 SPUR
CI9500-12	1	1	5.7.16	FCS-9504-XXX PROCESS JUNCTION BOX CERTIFICATION LABEL

The drawings are common to Baseefa16ATEX0096X and are held with IECEx BAS 16.0074X.

20 Certificate History

Certificate No.	Date	Comments
The information below is an example of what may be included – simple but informative		
Baseefa16ATEX0098X	9 th September 2016	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2012+A11:2013 EN 60079-1:2014 EN 60079-7:2007 EN 60079-18:2009 is documented in GB/BAS/ExTR16.0719/00.
Baseefa16ATEX0098X/1	2 November 2016	To allow the alteration of the equipment's name from FCS-9504-182 to FCS-9504-XXX. So that the certificate covers variant models from 182 up to and including 212
For drawings applicable to each issue, see original of that issue.		