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: **Baseefa15ATEX0072X – Issue 3**

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-9504-17X Fieldbus Megablock Enclosure**

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. Baseefa15ATEX0072X 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 60079-1:2014 EN IEC 60079-7:2015+A1:2018 EN 60079-18:2015 /A1:2017 /AC:2018

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:

Ⓔx II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +60°C)

SGS Fimko Oy Customer Reference No. **0703** Project File No. **23/0288**

SGS Fimko Oy
Takomotie 8
FI-00380 Helsinki, Finland
Telephone +358 (0)9 696 361
e-mail sgs.fimko@sgs.com
web site www.sgs.fi
Business ID 0978538-5 Member of the SGS Group (SGA SA)

Mikko Välimäki
SGS Fimko Oy

13 # Schedule

14 ## Certificate Number Baseefa15ATEX0072X – Issue 3

15 Description of Product

The FCS-95XX-1XX, FCS-9508-1XX, & FCS-9512-1XX Fieldbus Megablock enclosures enable individual field devices in a Zone 1 hazardous area to be connected to a high energy trunk cable. The enclosures can be fitted with one, two or three F2xx-XE MTL Relcom Megablock wiring hubs according to the type chosen. These, together with certified terminals, optional TP32 Surge Protection devices and FCS-MBT-XE terminators are housed in a stainless steel IP66 rated enclosure

The stainless steel IP66 enclosure (min size 406mm x 350mm x 203mm for the FCS-95XX-1XX 4-spur and FCS-9508-1XX 8-spur Megablock configurations, and min size 500mm x 450mm x 206mm for the FCS-9512 12-spur Megablock configuration) is populated with certified terminal blocks, surge protectors and megablocks.

The enclosure is component certified under Baseefa15ATEX0099U.

The enclosure has an IP66 Ex e breather/drain (factory fitted), and up to 15 IP66 Ex e cable glands or stopping plugs (which may or may not be factory fitted). The input power ratings for the assembly are 30V d.c at 0.39A.

The Process Junction box may contain a combination of the following:

Fieldbus XE Megablock wiring hubs and FCS-MBT-XE terminators, the number installed is dependent upon the Process Junction Box type (see details below). These have been assessed and are certified under KEMA 05ATEX2006.

Certified Ex e protective conductor terminal blocks, the number/type installed depends on the type of assembly. WPE4 terminals are afforded certificate number DEMKO 14ATEX 1338U, ZPE4 terminals are afforded certificate number KEMA97ATEX4677U, WDK2.5V terminals are afforded certificate number KEMA98ATEX1687U and ZDK2.5V terminals are afforded certificate number KEMA97ATEX4677U. The terminals are suitable for an operating temperature range of -50°C to +100°C.

Certified surge protectors are afforded certificate numbers Baseefa04ATEX0053 or KEMA04ATEX2318X.

The permissible combinations of the above components are as follows:

Junction box for 4-Spur Megablocks
Process Junction Box type FCS-9504-170 to 171 & 173 to 180 -
1, 2 or 3 F245-XE or F247-XE Megablocks may be fitted. 1 FCS-MBT-XE terminator may optionally be fitted with each F245-XE Megablock. Up to 15 surge protectors for fieldbus trunk and spurs may optionally be fitted.

Junction box for 8-Spur Megablocks
Process Junction Box type FCS-9508-110 to 119 -
1 F251-XE, or 1 F253-XE, or 1 F251-XE & 1 F245-XE, or 1 F253-XE & F247-XE Megablocks may be fitted.

1 FCS-MBT-XE terminator may optionally be fitted with each F245-XE or F251-XE Megablock. Up to 15 surge protectors for fieldbus trunk and spurs may optionally be fitted.

Junction boxes for 12-Spur Megablocks
Process Junction Box type FCS-9512-171 to 180
1 F271-XE Megablock may be fitted. Up to 15 surge protectors for fieldbus trunk and spurs may optionally be fitted.

The component parts are listed as follows:

Item	Certificate	Code	Standards
Enclosure type Ex-cell	Baseefa15ATEX0099U	⟨Ex⟩II 2G Ex eb IIC Gb ⟨Ex⟩II 2D Ex tb IIIC Db	EN IEC 60079-0:2018 EN IEC 60079-7_2015+A1:2018 EN 60079-31:2014
Fieldbus XE Megablock	KEMA05ATEX2006	⟨Ex⟩ II 2 G Ex e mb IIC T4 Gb	EN 60079-0: 2012 EN 60079-7: 2007 EN 60079-18: 2009
Feed Through Terminal Blocks…	DEMKO 14ATEX1338U	⟨Ex⟩ II 2 GD Ex eb IIC T6 (- 60°C ≤ Tamb ≤ +40 °C) T5 (- 60°C ≤ Tamb ≤ +55 °C) T4 (- 60°C ≤ Tamb ≤ +70 °C)	EN 60079-0: 2012 + A11: 2013 EN 60079-7:2007
Surge Protection Units type TP32	Baseefa04ATEX0053X	⟨Ex⟩ II 2G Ex d IIC T6(Tamb = -40°C to +60°C) Gb T5(Tamb = -40°C to +60°C) Gb T4(Tamb = -40°C to +60°C) Gb	EN 60079-0: 2012 + A11: 2013 EN 60079-1:2015
Fieldbus Surge Protector Type F.-LBF-D1.32	KEMA04ATEX2318X	⟨Ex⟩II 2G Ex d IIC T5 or T6 Gb	EN 60079-0: 2012 EN 60079-1: 2007
Feed Through Terminal Blocks…	KEMA97ATEX4677U KEMA98ATEX01687U	⟨Ex⟩II 2 G D Ex e II -50°C to ….+100°C	EN 60079-0: 2004 EN 60079-7: 2003

16 Report Number

See certificate history.

17 Specific Conditions of Use

1. The equipment shall be effectively earth bonded prior to use.
2. Only Ex e certified cable glands, breathers or blanking plugs may be used with the equipment.
3. Entry device shall maintain a minimum ingress protection of at least IP54.
4. The enclosure lid must be opened and closed in a vertical position so that the hinges are protected against excessive mechanical forces.
5. Terminal blocks shall be protected against sun and UV light.
6. Under any condition no part of the equipment shall exceed the temperature range.
7. When used below -10°C field wiring suitable for minimum ambient temperature shall be used for the WPE 4 terminal blocks.
8. Unused terminals shall be tightened.

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**
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
CI9500-2	1 to 2	4	7.24	PROCESS JUNCTION BOX ASSEMBLY, 12 SPUR
CI9500-3	1	5	5.24	Process Junction Box Certification Label

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
CI9500-1	1 to 2	3	12.19	PROCESS JUNCTION BOX ASSEMBLY 4 & 8 SPUR

All new and current drawings are common to IECEx BAS 17.0122X.

20 Certificate History

Certificate No.	Date	Comments
Baseefa15ATEX0072X	19 August 2015	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0: 2012 + A11: 2013, EN60079-1: 2015, EN60079-7: 2007 and EN60079-18: 2009 is documented in Test Report No. 15(C)0228.
Baseefa15ATEX0072X Issue 1	30 September 2016	To permit the manufacturer's name to be changed. There is no separate assessment report. (Project 16/0371).
Baseefa15ATEX0072X Issue 2	9 December 2019	This issue of the certificate permits:- i. The use of an alternative component certified enclosure with smaller minimum dimensions. The fitting of the equipment inside the alternative Type Ex-cell enclosure (certificate Baseefa15ATEX0099U) does not affect the existing certification. models FCS-9504-282 to 299 are now covered by this certificate. ii. The use of alternative terminals WDU2.5 (DEMKO14ATEX1338U), & ZDU2.5 (DEMKO15ATEX1467U). iii. Confirmation that the current design has been reviewed against the requirements of EN 60079-7:2015+A1:2018 in respect of the differences from EN 60079-7:2007, and with the exception of the marking none of the differences affect this equipment. All variants are now marked:- Ⓔx II 2G Ex db eb mb IIC T4 Gb (-40°C ≤ Ta ≤ +60°C) iv. The updating of the component information listed in Table 1 of this certificate to include updated Component Certificate information, and add the new enclosure and terminal information. See GB/BAS/ExTR19.0333/00 for project 19/0448.

Certificate No.	Date	Comments
Baseefa15ATEX0072X Issue 3	9 September 2024	To permit:- i. A label change relating to manufacturing locations. ii. A standards update to EN IEC 60079-0:2018 & EN 60079-18:2015 +A1:2017 iii. The removal of one enclosure option. See GB/SGS/ExTR24.0101/00 for project 23/0288
For drawings applicable to each issue, see original of that issue.		