

1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **BAS02ATEX2121X/9**

4 Equipment or Protective System: **A Type EF280MN and EF315SN Cage Induction Motor**

5 Manufacturer: **Fabryka Silnikow Elektrycznych "Tamel" SA**

6 Address: **ul. Elektryczna 6, 33-100, Tarnow, Poland**

7 This supplementary certificate extends EC - Type Examination Certificate No. **BAS02ATEX2121X** to apply to equipment or a protective system designed and constructed in accordance with the specification set out in the Schedule of this certificate which incorporates and supersedes all previous issues of the said certificate.

8 The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa, Notified Body Number 1180, is responsible only for the additional work relating to this re-issued certificate and any other supplementary certificate it has issued.

The examination and test results are recorded in confidential Report No. **10(C)0579**

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

EN60079-0: 2009

EN60079-1: 2007

EN60079-7: 2007

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 equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This Supplementary EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

Ex II 2 G Ex de IIB T* Gb (T_{amb} -*°C to +*°C) and/or Ex I M2 Ex de I Mb see schedule

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **5233**

Project File No. **10/0579**

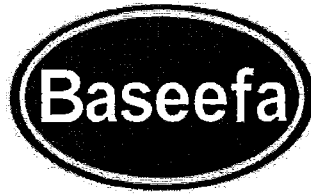
This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

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Baseefa is a trading name of Baseefa Ltd
Registered in England No. 4305578. Registered address as above.

RS Sinclair
R S SINCLAIR
DIRECTOR
On behalf of
Baseefa

Re-issued 11 March 2015 to replace original



13

Schedule

14

Certificate Number BAS02ATEX2121X/9

15 Description of Equipment or Protective System

The EF Series Induction Motors of Frame Sizes EF280MN and EF315SN comprise a stator frame and end shields manufactured from cast iron, and an increased safety terminal box attached to the stator frame. The single or double ended motors can be provided with either an end shield adapter for flange mounting and/or bolt-on feet and have an optional external cooling fan and sheet steel fan cowling. An additional drip-proof canopy is provided when the motors are supplied with an external cooling fan and are intended to be mounted vertically with the shaft downwards.

The EF280MN and the longer EF315SN motors have the same frame diameter, the bolt-on feet are used to provide the alternative shaft heights. The motors can be provided with imperial dimensions for the drive shaft and shaft height, and alternative feet and shaft sizes with redesignated frame sizes.

Other options include a cable spreader box, a cast iron fan cowling, internal heaters or low voltage heating of the windings for anti-condensation purposes, and a drain plug in the increased safety terminal box.

The motors are continuously rated for SI duty as defined in EN 60034-1 and are for connection to a three phase supply having form and symmetry not worse than that defined in EN 60034-1. Alternatively the motors may be used on non-sinusoidal or variable frequency supplies up to a maximum of 60Hz. In these cases, and for motors, without an external fan, at least one thermal overload protector per phase is fitted in the stator winding slot or overhang, for connection to a protective circuit.

The motors are rated from 220V a.c. to 1100V a.c., three phase, up to 60Hz, 2 to 8 pole, and have a maximum power output, dependent on the number of poles, of 148kW or 168kW at 50Hz and 60Hz respectively.

In this form the ambient temperature range is -55°C to +40°C, however for operational purposes the motors may be marked for a restricted range within these temperatures.

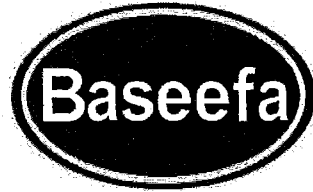
Cable entry holes are provided as specified on the certified drawings for the accommodation of suitable cable entry devices, with or without the interposition of a suitable thread adapter. Unused entries are to be fitted with suitable stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use.

Drawings

Number	Revision	Date	Description
B00017**	F	18.09.10	Sectional Arrangement 280MN – 315SN Motor
B10051*	A	12.03.03	Terminal box Ex de, 6 terminal 101 – 160 Amp
B10053*	A	12.03.03	Terminal box Ex de, 3 main terminals, 101 – 160 Amp
B10055*	A	12.03.03	Terminal box Ex de, 3 main terminals, 0- 100 Amp
B10057*	A	12.03.03	Terminal box Ex de, 6 main terminals, 0- 100 Amp
B10059*	A	12.03.03	Terminal box Ex de, 9 main terminals, 0- 100 Amp
B10061*	A	12.03.03	Terminal box Ex de, 12 main terminals, 0 – 100 Amp
B20080*	-	12.11.01	Drain Plug Details
B20078*	-	12.11.01	Captive Terminal Box Screw Arrangement
B20075*	-	12.11.01	Coupling Adapter Plate
B20101*	-	12.11.01	Gas Group IIB Dimensions
B20081*	-	12.11.01	Cast Iron Fan Cover Arrangement
B30280*	-	12.11.01	Low Voltage Heating Details
B30300*	-	12.11.01	Alternative Cord Type Anti-condensation Heater

**These drawings have been submitted for this certificate.



* These drawings have been previously certified under BAS02ATEX2121X and its previous supplementary certificates. Some of these drawings are common to other certificates as indicated on drawing B30213. All are held on file 5233/02.

Special Conditions for Safe Use

1. For motors of temperature classification T3, operating on a non-sinusoidal and/or variable frequency supply, the fundamental frequency is limited to a maximum of 60Hz. For these motors, and those without an external fan, thermal overload protectors are to be connected into a control circuit such that the machine is disconnected from the main supply to prevent the winding temperature exceeding 160°C.
2. When applicable, the motor control shall be such as to ensure that the low voltage on the windings for anti-condensation purposes is only applied when the main supply is disconnected. The maximum voltage specified by the manufacturer and marked on the motor shall not be exceeded.
3. The electrical supply to the anti-condensation heaters must be interlocked with the main motor power supply so that they are only energised when the motor is de-energised, and the heaters must be de-energised before opening any part of the motor enclosure.
4. When the motors are vertically mounted with the drive shaft uppermost, the driven component must prevent falling objects from entering the fan cowling.
5. For replacement purposes, fixing screws must be of minimum grade 8.8, except socket head cap screws which must be minimum grade 12.9.
6. When removed and subsequently replaced the drain plug in the Increased Safety terminal box shall be resealed with Hylomar, Heldite, or Hermetite.
7. When maintaining or repairing the motor, the minimum length and maximum gap of the rotor shaft and bearing cap flamepaths must be maintained to gas Group IIC specifications.

Variation 9.1

Alternative ambient temperature range ($T_{amb} = +60^{\circ}\text{C}$) without a change in temperature classification of T3 when derated as specified.

Drawing

Number	Revision	Date	Description
B30217*	-	10.11.01	Derating Factors T3 High Ambient

Variation 9.2

Alternative temperature classification of T4 ($T_{amb} = +40^{\circ}\text{C}$) when derated as specified on drawing B00017, or an alternative temperature classification of T4 ($T_{amb} = +60^{\circ}\text{C}$) when derated as specified.

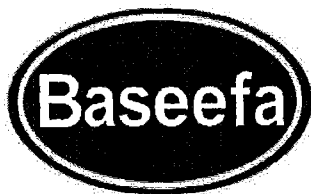
Drawing

Number	Revision	Date	Description
B30214*	-	12.11.01	Derating Factors T4 High Ambient

Additional Special Conditional for Safe Use

For motors of temperature classification T4, operating on a non-sinusoidal and/or variable frequency supply, the fundamental frequency is limited to a maximum of 60Hz. For these motors, and those without an external fan, thermal overload protectors are to be connected into a control circuit such that the machine is disconnected from the main supply to prevent the winding temperature exceeding 140°C. Where the supply is derived from an inverter this shall have an output whose total harmonic distortion of voltage and current waveforms does not exceed 15% and 6% respectively at all operating speeds and frequencies.

Variation 9.3



To permit the motors to be used on non-sinusoidal or variable frequency supplies up to a maximum of 75Hz, with at least one thermal protector per phase is fitted in the stator winding slot or overhang, for connection to a protective circuit. The output is increased up to 187kW with a temperature classification of T3 or up to 167kW with a temperature classification of T4, within an ambient temperature range of -20°C to +40°C.

Additional Special Condition for Safe Use

For motors of temperature classification T3 or T4, operating on a non-sinusoidal and/or variable frequency supply, the fundamental frequency is limited to a maximum of 75Hz, and the thermal overload protectors are to be connected into a control circuit such that the machine is disconnected from the main supply to prevent the winding temperature exceeding 160°C or 140°C respectively. The inverter shall have an output whose total harmonic distortion of voltage and current waveforms does not exceed 15% and 6% respectively at all operating speeds and frequencies.

Variation 9.4

Alternative windings to the 60Hz, temperature classification T4, motors only to provide specified increased outputs.

Variation 9.5

To permit outputs of up to 50% above standard rating with additional air velocity provided by either modified design Self Circulating fan (IC411) or air circulated by Relative Displacement (IC418) both with thermal overload protection at 160°C. This arrangement is for machines used on a sinusoidal supply or, with suitably de-rating, on a non-sinusoidal supply.

When used in this manner, the motors have a Temperature Classification of T3

Additional Special Condition for Safe Use

For motors of temperature classification T3, with 'Air Over Motor' build, thermal overload protectors are to be connected into a control circuit such that the machine is disconnected from the main supply to prevent the winding temperature exceeding 160°C.

Variation 9.6

To permit outputs at up to 20% above standard rating with additional air velocity provided by either modified design Self Circulating fan (IC411) or air circulated by Relative Displacement (IC418) both with thermal overload protection at 140°C. This arrangement is for machines intended only for use on a sinusoidal supply.

When used in this manner, the motors have a Temperature Classification of T4

Additional Special Condition for Safe Use

For motors of temperature classification T4, with 'Air Over Motor' build, thermal overload protectors are to be connected into a control circuit such that the machine is disconnected from the main supply to prevent the winding temperature exceeding 140°C.

Variation 9.7

To permit all motors to be used on a non-sinusoidal supply up to a maximum running speed of 3600 rev/min when de-rated and thermally protected as specified.

Additional Special Conditions for Safe Use

The thermal overload protectors are to be connected into a control circuit such that the machine is disconnected from the main supply to prevent the winding temperature exceeding the specified temperature classification.

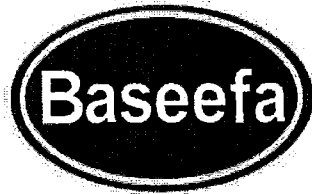
Variation 9.8

Alternative windings to provide two speed motors. The 2 to 8 pole single or two winding motors have a thermal protector in each phase, or 2 thermal protectors for a single phase motor, for each winding.

Addition Special Condition for Safe Use

The thermal protectors must be connected to a suitable control circuit such that the motor is disconnected from the supply in the event of excessive temperatures.

Variation 9.9



Addition of

⊕ IM2 Ex de I

to the marking of existing T4 or T5 temperature class motors listed below.

When motors are used in Group I applications, aluminium cooling fans are not to be fitted and certain fan cowls are attached via an extension barrier when specified in the drawings below.

Cable entry holes are provided as specified on the certified drawings for the accommodation of suitable cable entry devices, with or without the interposition of a suitable thread adapter, or suitable stopping plugs. The cable entry devices, thread adapters and stopping plugs should be certified as Group I Equipment (not a Component) under an EC-Type Examination certificate to Directive 94/9/EC.

Component certified cable entry devices, thread adapters and stopping plugs may only be used if specifically included in the certificate schedule.

The cable entry device and cabling methods used in service must be suitable for their intended duty and the special types of cable used in mining.

Additional Special Conditions for Safe Use

- 1 For motors used in Group I applications, thermal overload protectors are to be connected into a control circuit such that the machine is disconnected from the main supply to prevent the winding temperature exceeding 140°C.
2. Flamepath gaps are less than those required for Group I, consult the manufacturer before repair.

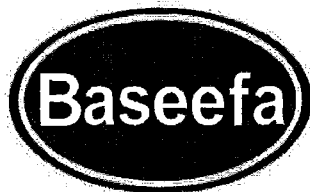
Drawing

Number	Sheet	Issue	Date	Description
K20AC001/0	-	-	19-4-07	Group I Versions of Motors
K26BZ001/0*	-	-	10-5-07	Barrier - 280M/315S

Variation 9.10

To note alternative frame designations as indicated below.

POLES	MAIN FRAME TYPE (BS specification)	MAIN FRAME TYPE (European specification)	ALTERNATIVE TYPE	MAX OUTPUT POWER T4 AT 50Hz [kW]
2	EF280MN	EF315SNE	dSg315S-2	110
2	EF315SN	EF315MNE	dSg315ME-2	132
4	EF280MN	EF315SNE	dSg315S-4	110
4	EF315SN	EF315MNE	dSg315ME-4	132
6	EF280MN	EF315SNE	dSg315S-6	75
6	EF315SN	EF315MNE	dSg315ME-6	90
8	EF280MN	EF315SNE	dSg315S-8	55
8	EF315SN	EF315MNE	dSg315ME-8	75



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 94/9/EC

3 Supplementary EC - Type Examination Certificate **See Schedule**
Number:

4 Equipment or protective system: **See Schedule**

5 Manufacturer: **Fabryka Silnikow Elektrycznych "Tamel" SA**

6 Address: **Ul. Elektryczna 6, 33-100, Tarnow, Poland**

7 This supplementary certificate extends the EC - Type Examination Certificates listed in the Schedule to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedules of the said Certificates but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

A copy of this Supplementary Certificate shall be attached to each of the original Certificates.

This certificate may only be reproduced in its entirety, without any change, Schedule included.

Baseefa Customer Reference No. **5233**

Project File No. **12/0166**

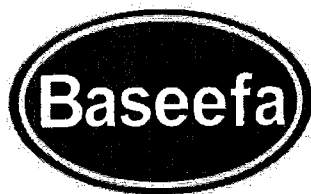
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A.P.R. S. SINCLAIR M. POWNEY

DIRECTOR
On behalf of
Baseefa



Schedule

Description of the variation to the Equipment or Protective System

Reduction of the minimum, machined, female spigot wall thickness for the units listed below and as on the scheduled drawings.

Certificate No.	Supplement No.	Equipment Type
BAS02ATEX2111X	11	Type EF200LN and EF225SN Cage Induction Motor
BAS02ATEX2112X	11	Type EF200LN and EF225SN Cage Induction Motor
BAS02ATEX2113X	10	Type EF200LN and EF225SN Cage Induction Motor
BAS02ATEX2114X	12	Type EF225MN and EF250SN Cage Induction Motor
BAS02ATEX2115X	11	Type EF225MN and EF250SN Cage Induction Motor
BAS02ATEX2116X	10	Type EF225MN and EF250SN Cage Induction Motor
BAS02ATEX2117X	11	Type EF250MN and EF280SN Cage Induction Motor
BAS02ATEX2118X	11	Type EF250MN and EF280SN Cage Induction Motor
BAS02ATEX2119X	10	Type EF250MN and EF280SN Cage Induction Motor
BAS02ATEX2120X	11	Type EF280MN and EF315SN Cage Induction Motor
BAS02ATEX2121X	10	Type EF280MN and EF315SN Cage Induction Motor
BAS02ATEX2122X	9	Type EF280MN and EF315SN Cage Induction Motor
BAS02ATEX2123X	10	Type EF315MN and EF315LN Cage Induction Motor
BAS02ATEX2124X	10	Type EF315MN and EF315LN Cage Induction Motor
BAS02ATEX2125X	9	Type EF315MN and EF315LN Cage Induction Motor

Report No.

None

Specific Conditions of Use

None additional to those listed previously

Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

Drawings and Documents

Number	Issue	Date	Description
4P48T6225	-	03.2012	Types EF200L, EF225S, EF225M, EF250SN, EF250M, EF280S, EF280M, EF315S, EF315M and EF315L Cage Induction Motors (Revised Minimum Spigot Wall Thicknesses)

Certificate Number
See Schedule

SGS



Issued 2nd June 2014
Page 1 of 3

- 1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**
- 2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**
- 3 Supplementary EC - Type Examination Certificate Number: **See Schedule**
- 4 Equipment or protective system: **See Schedule**
- 5 Manufacturer: **ATB Tamel Spolka Akcyjna**
- 6 Address: **Ul. Elektryczna 6, 33-100 Tarnow, Poland**
- 7 This supplementary certificate extends the EC - Type Examination Certificates listed in the Schedule to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedules of the said Certificates but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

A copy of this Supplementary Certificate shall be attached to each of the original Certificates.

Baseefa Customer Reference No. 5233

Project File No. 14/0244

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R S SINCLAIR M POLONEY
GENERAL MANAGER

On behalf of SGS Baseefa Limited

Schedule

Description of the variation to the Equipment or Protective System

Addition of up to two auxiliary terminal boxes on the side of the main increased safety terminal box. The auxiliary terminal box(es) is/are bolted on the side of the main terminal box and are used to house a terminal block as SIRA01ATEX3247U. The auxiliary terminal boxes are fitted with gaskets manufactured from solid neoprene or silicone between the cover and the terminal box and between the terminal box and the existing increased safety terminal box enclosure to provide the necessary IP54 rating. The gasket is secured to the terminal box with glue (or is self-adhesive)- on one side only.

Certificate No.	Supplement No.	Equipment Type
Baseefa02ATEX0020X*	11	Type EF132S Cage Induction Motor
Baseefa02ATEX0022X*	10	Type EF160M Cage Induction Motor
Baseefa02ATEX0024X*	10	Type EF180M Cage Induction Motor
Baseefa10ATEX0150X*	1	EF Range of Low Voltage Induction Motors, Frame Sizes EF90S/L to EF180M/L
Baseefa11ATEX0240X*	1	EF Range of Induction Motors, Frame Sizes EF90S/L to EF180M/L
BAS02ATEX2112X**	12	W-EF Series Induction Motors of Frame Sizes W-EF200LN and W-EF225SN
BAS02ATEX2113X**	11	W-EF Series Induction Motors of Frame Sizes W-EF200LN and W-EF225SN
BAS02ATEX2115X**	12	W-EF Series Induction Motors of Frame Sizes W-EF225MN and W-EF250SN
BAS02ATEX2116X**	11	W-EF Series Induction Motors of Frame Sizes W-EF225MN and W-EF250SN
BAS02ATEX2118X**	12	W-EF Series Induction Motors of Frame Sizes W-EF250MN and W-EF280SN
BAS02ATEX2119X**	11	W-EF Series Induction Motors of Frame Sizes W-EF250MN and W-EF280SN
BAS02ATEX2121X**	11	W-EF Series Induction Motors of Frame Sizes W-EF280MN and W-EF315SN
BAS02ATEX2122X**	10	W-EF Series Induction Motors of Frame Sizes W-EF280MN and W-EF315SN
BAS02ATEX2124X**	11	W-EF Series Induction Motors of Frame Sizes W-EF315MN and W-EF315LN
BAS02ATEX2125X**	10	W-EF Series Induction Motors of Frame Sizes W-EF315MN and W-EF315LN

Certificate Number
See Schedule

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Issued 2nd June 2014
Page 3 of 3

Report No.

GB/BAS/ExTR14.0143/00

Specific Conditions of Use

None additional to those listed previously

Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

Drawings and Documents

Number	Sheet	Issue	Date	Description
2E41T0898*	-	-	02-2014	Arrangement of Terminals Ex de, Sizes 132/160 and 180 Motors With Auxiliary Terminal Box
1E51T0119**	-	-	02-2014	Arrangement of Terminals Ex de, Sizes 200 to 315 Motors With Auxiliary Terminal Box

* Drawing for certificates as * above are common to and held with IECEX BAS 11.0122X

** Drawing for certificates as ** above are common to and held with IECEX BAS 10.0075X

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2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **BAS02ATEX2121X/12**

4 Equipment or Protective System: **A Type EF280MN and EF315SN Cage Induction Motor**

5 Manufacturer: **ATB Tamel Spolka Akcyjna**

6 Address: **ul. Elektryczna 6, 33-100, Tarnow, Poland**

7 This supplementary certificate extends EC – Type Examination Certificate No. BAS02ATEX2121X to apply to equipment or protective systems 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 Item 9 of the original Certificate is replaced by "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 60079-7:2015

except in respect of those requirements listed at item 18 of the Schedule."

9 The marking of the equipment has changed from the original Certificate and shall include the following:

⊕ II 2G Ex db eb IIB T* Gb (T_{amb} -*°C to +*°C) and/or ⊕ I M2 Ex db eb I Mb *See schedule

*See re-issued certificate at supplement 9 for schedule.

This certificate shall be held with the original certificate.

Baseefa Customer Reference No. **5233**

Project File No. **15/0299**

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RS SINCLAIR
R S SINCLAIR
GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number BAS02ATEX2121X/12

15

Description of the variation to the Equipment or Protective System

Variation 12.1

To confirm that the type EF280MN and EF315SN cage induction motor covered by this certificate have been reviewed and confirmed as being in compliance with the latest standard; EN 60079-0:2012+A11:2013, EN 60079-1:2014 and EN 60079-7: 2015.

16

Report Number

SGS Baseefa Certification Report Number 15(C)0299

17

Specific Conditions of Use

None additional to those listed previously

18

Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19

Drawings and Documents

Number	Sheet	Issue	Date	Description
B00017G	1	G	25/06/2015	Sectional Arrangement of EF280MN/EF315SN AND EF444T-N/EF445T-N

This drawing is common to this certificate and is held with technical file 5233.

1 SUPPLEMENTARY EU - TYPE EXAMINATION CERTIFICATE

**2 Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 Supplementary EU - Type Examination Certificate Number: **BAS02ATEX2121X/13**

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: **Type EF280MN and EF315SN Cage Induction Motors**

5 Manufacturer: **ATB Tamel Spolka Akcyjna**

6 Address: **Ul. Elektryczna 6, 33-100 Tarnow, Poland**

7 This supplementary certificate extends EC – Type Examination Certificate No. **BAS02ATEX2121X** to apply to products 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 the product, as modified by this supplementary certificate, 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 The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. SGS Baseefa, Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

SGS Baseefa Customer Reference No. **5233**

Project File No. **19/0060**

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R S SINCLAIR
TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

M POWNEY
Certification
Manager

13

Schedule

14

Certificate Number BAS02ATEX2121X/13

15 **Description of the variation to the Product**

Variation 13.1

To allow the Type EF280MN and EF315SN Cage Induction Motors to be used for S2 duty, with any duration of duty, in accordance with EN 60034-1, when rated for a T3 temperature classification and fitted with three PTC160 thermal trips, one per phase.

16 **Report Number**

SGS Baseefa certification report 19(C)0060.

17 **Specific Conditions of Use**

None additional to those listed previously.

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

None.