

1 **SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary Type Examination Certificate Number: **Baseefa14ATEX0039X/2**

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 Equipment: **Range of PPA/PPC induction motors of frame sizes 80 to 400**

5 Manufacturer: **Regal Beloit Australia Pty Limited**

6 Address: **19 Corporate Ave., Rowville, VIC 3178, Australia**

7 This supplementary certificate extends Type Examination Certificate No. Baseefa14ATEX0039X to apply to equipment 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.

This supplementary certificate shall be held with the original certificate.

Baseefa Customer Reference No. 7215

Project File No. 15/0723

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R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa14ATEX0039X/2**

15 **Description of the variation to the Equipment**

Variation 2.1

The addition of an option to include fitment of IECEx approved plug and socket.

Variation 2.2

To permit the operation of Ex nA motors above nominal frequency.

Variation 2.3

The addition of alternative manufacturing locations.

Variation 2.4

To permit clarification to the specific conditions of use.

16 **Report Number**

GB/BAS/ExTR16.0152/00

17 **Specific Conditions of Use**

Specific condition of use number 3 on the original certificate is replaced by:

3. The thermal protection devices, when fitted to the motors with VVVF drives, shall be connected into the motor control circuit in such a manner as to disconnect the source of supply in order to prevent the nominated temperature class from being exceeded. The stator RTDs and thermistors can be connected via a standard industrial controller provided that the controller is located in a safe area.

Additional conditions of use to be added are:

4. The plug and socket type DXN1 shall not to be used on inverter driven motors above 50/60 hertz.
5. The plug and socket type DXN1 are limited to use within low impact areas.

18 **Essential Health and Safety Requirements**

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

19 **Drawings and Documents**

Drawing No	Description	Issue	Date	Certificates
B-PPA151A	PPA 'Ex nA' Motor loadability with Frequency Converter	B	14-Jan-16	IECEX BAS 14.0017X Baseefa14ATEX0039X
B-PPA173A	PPA/PPC 2 Pole Fan Limiting speed Data @Max Frequency	A	22-Dec-15	IECEX BAS 14.0017X Baseefa14ATEX0039X
B-PPA173B	PPA/PPC 4 Pole Fan Limiting speed Data @Max Frequency	A	22-Dec-15	IECEX BAS 14.0017X Baseefa14ATEX0039X
B-PPA173C	PPA/PPC 6 Pole Fan Limiting speed Data @Max Frequency	A	22-Dec-15	IECEX BAS 14.0017X Baseefa14ATEX0039X
B-PPA173D	PPA/PPC 8 Pole Fan Limiting speed Data @Max Frequency	A	22-Dec-15	IECEX BAS 14.0017X Baseefa14ATEX0039X

The above drawings are held with IECEX BAS 14.0017X

Drawing No.	Description	Issue	Date	Certificates
B-PPA201	PPA Terminal Box Arrangement with Appliance Inlet Fitted	C	13-May-16	IECEX BAS 14.0008X IECEX BAS 14.0017X Baseefa14ATEX0038X Baseefa14ATEX0039X
B-PPA202	PPA Conduit Plate Arrangement with Appliance Inlet Fitted	C	13-May-16	IECEX BAS 14.0008X IECEX BAS 14.0017X Baseefa14ATEX0038X Baseefa14ATEX0039X
B-PPA204	PPA/C 160-280 Terminal Box Arrangement with Appliance Inlet Fitted	C	13-May-16	IECEX BAS 14.0008X IECEX BAS 14.0017X Baseefa14ATEX0038X Baseefa14ATEX0039X
B-PPA206	PPA/C 2P Maximum kW size For Receptacles DXN(20-63Amp)	B	06-May-16	IECEX BAS 14.0008X IECEX BAS 14.0017X Baseefa14ATEX0038X Baseefa14ATEX0039X
B-PPA207	PPA/C 4P Maximum kW size For Receptacles DXN(20-63Amp)	B	06-May-16	IECEX BAS 14.0008X IECEX BAS 14.0017X Baseefa14ATEX0038X Baseefa14ATEX0039X
B-PPA208	PPA/C 6P Maximum kW size For Receptacles DXN(20-63Amp)	B	06-May-16	IECEX BAS 14.0008X IECEX BAS 14.0017X Baseefa14ATEX0038X Baseefa14ATEX0039X
B-PPA209	PPA/C 8P Maximum kW size For Receptacles DXN(20-63Amp)	B	06-May-16	IECEX BAS 14.0008X IECEX BAS 14.0017X Baseefa14ATEX0038X Baseefa14ATEX0039X
B-PPA124	Options For PPA/PPC 80-315 Ex e ,Ex nA & Ex t Motors 80 - 400	C	06-May-16	IECEX BAS 14.0008X IECEX BAS 14.0017X Baseefa14ATEX0038X Baseefa14ATEX0039X
7609	Nameplate For Motors for VFD supply	A	17-Feb-16	IECEX BAS 14.0017X IECEX BAS 14.0018X Baseefa14ATEX0031X Baseefa14ATEX0039X

The above drawings are held with IECEX BAS 14.0017X and IECEX BAS 14.0018X

1 **SUPPLEMENTARY TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary Type Examination Certificate Number: **Baseefa14ATEX0039X/1**

4 Equipment: **Range of PPA/PPC induction motors of frame sizes 80 to 400**

5 Manufacturer: **Regal Beloit Australia Pty Limited**

6 Address: **19 Corporate Ave., Rowville, VIC 3178, Australia**

7 This supplementary certificate extends Type Examination Certificate No. Baseefa14ATEX0039X to apply to equipment 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.

This supplementary certificate shall be held with the original certificate.

Baseefa Customer Reference No. 7215

Project File No. 15/0472

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SGS Baseefa Limited

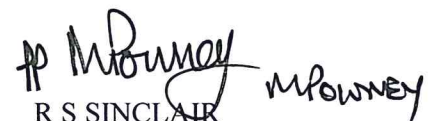
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A handwritten signature in black ink that reads 'R S SINCLAIR'.

R S SINCLAIR
GENERAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number Baseefa14ATEX0039X/1

15 **Description of the variation to the Equipment**

Variation 1.1

To permit a change to the specific conditions of use.

16 **Report Number**

None.

17 **Specific Conditions of Use**

Specific condition of use number 3 on the original certificate is replaced by:

3. The thermal protection devices shall be connected into the motor control circuit in such a manner as to disconnect the source of supply in order to prevent the nominated temperature class from being exceeded. The stator RTDs and thermistors can be connected via a standard industrial controller provided that the controller is located in a safe area.

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.

1 **TYPE EXAMINATION CERTIFICATE**

2 **Equipment Intended for use in Potentially Explosive Atmospheres**
3 **Directive 94/9/EC**

3 Type Examination Certificate Number: **Baseefa14ATEX0039X**

4 Equipment: **Range of PPA/PPC induction motors of frame sizes 80 to 400**

5 Manufacturer: **Regal Beloit Australia Pty Limited**

6 Address: **19 Corporate Ave., Rowville, VIC 3178, Australia**

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment of Category 3 intended for use in potentially explosive atmospheres given in Annex II to European Union Directive 94/9/EC of 23 March 1994.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR14.0039/00**

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

EN 60079-0:2012

EN 60079-15:2010

EN 60079-31:2013

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 is subject to special conditions for safe use specified in the schedule to this certificate.

11 This TYPE EXAMINATION CERTIFICATE relates only to the design of the specified equipment and not to specific items of equipment subsequently manufactured.

12 The marking of the equipment shall include the following :

⊕ II 3 G Ex nA IIC T3 Gc T_{amb}(-20°C to +60°C) or,

⊕ II 3 D Ex tc IIIC T135°C Dc T_{amb}(-20°C to +50°C) or,

⊕ II 3GD Ex nA IIC T3 Gc T_{amb}(-20°C to +50°C)

Ex tc IIIC T135°C Dc

Baseefa Customer Reference No. **7215**

Project File No. **13/0928**

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R S SINCLAIR

GENERAL MANAGER

On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa14ATEX0039X**

15 **Description of Equipment**

PPA/PPC Range of Induction Motors with shaft centre heights ranging from 80 to 400mm are manufactured with cast iron frames for horizontal or vertical, foot and/or flange mounting. The flanges may be oversize or undersize as required and the enclosure provides a degree of ingress protection of at least IP66. The range covers 2 pole to 8 pole 3 phase windings for 40, 50 or 60Hz operation at voltages of 100 to 1000V. The range is rated up to 630kW, the largest power ratings being the 4 pole frame size 400LX.

The range of motors is designated as type PPA for Australian output (kW/frame) or type PPC for the EU (kW/frame) and are identical in construction.

The machine ratings as covered by this certificate are shown in the table below.

	Ex nA		Ex t	
	Frame size	kW Rating	Frame size	kW Rating
PPA (2P – 8P)	80 to 400	0.55 to 630	80 to 400	0.55 to 630
PPC (2P – 8P)	225 to 355	18.5 to 280	225 to 355	18.5 to 280

Bearing Arrangements

Spigots are machined at either end of the stator frame onto which the machined spigots of cast iron end shields are fitted. The end shields carry the grease lubricated rolling element bearing arrangements which are of ball or roller or angular contact designs. The bearings are covered either by the end shield itself as in smaller frames or by separate bearing covers with appropriate sealing arrangement for ingress protection.

Stator

The stator core packs are built from insulated silicon steel laminations which are clamped together. The wound and impregnated stator assembly is secured in the stator frame by an interference fit.

Rotor

The rotor core packs built from insulated steel laminations are fitted on to the steel shaft with an interference fit. The rotor cage is of die cast aluminium and is dynamically balanced by the addition of balanced weights secured onto cast studs on the rotor cage. Double shaft extensions or alterations to standard shaft extensions are included in the range. The rotor construction is designed to be compliant with the requirements of Table 6 of EN 60079-15 for any potential risk of air gap sparking with due considerations to risk factors.

Terminal Arrangement

The motors are fitted with separate bolt-on cast iron terminal boxes fitted with bolt-on covers incorporating a gasket which is glued to one surface. The position of terminal boxes can be on either side of the motor frame.

Main terminal boxes contain moulded resin/fibre glass terminal blocks incorporating threaded terminal studs to support the winding ends and supply cables with provision for optional auxiliary terminals. Optionally the winding ends may be brought out as extended flying leads via suitably ATEX certified conduit fittings for direct connection to the supply terminals. Adequate clearance and creepage distances are provided as required by the standards for Ex nA protection for the applicable voltage category.

Auxiliary terminal boxes may be fitted to the main terminal box to facilitate termination of auxiliary devices such as thermistors, anti-condensation heaters and RTDs. ATEX certified terminal blocks are used to terminate these auxiliary devices.

Cable glands or conduit fittings shall be suitably ATEX certified with IP rating equivalent to or better than that of the equipment rating. Unused cable or conduit entries must be fitted with appropriately certified plugs.

Ventilation

Various methods of cooling are used including TEFC or TEBC with the blower motor being separately ATEX certified. Optionally an ATEX certified encoder may be attached to the main motor shaft.

Windings

Motors are wound with modified polyester or polyester-imide enamelled copper wires with the winding overhangs suitably insulated and adequately tied in order to compact them and keep the insulation between phases.

Use of Variable Voltage Variable Frequency (VVVF) Drives

Ex nA motors may be operated with VVVF drives in the following conditions-

- Use of PWM inverters (VVVF drives) with carrier switching frequency > 5kHz or the default switching frequency of the drive whichever is lower.
- When motors are operated below 50Hz with constant torque loads, a de-rating factor to be applied as per the loadability curve published in the Installation, Operation and Maintenance (IOM) manuals supplied with each motor.
- Ex nA and Ex t motors shall be fitted with thermal protective devices which shall be connected to the motor control circuit in such a manner as to disconnect the source of supply in order to prevent the nominated temperature class from being exceeded.

Ambient Temperatures

The standard ambient temperature range for Ex t motors is -20°C to +50°C. For Ex nA motors the standard ambient temperature is -20°C to +60°C.

Ingress Protection Rating

The standard ingress protection rating for Ex t and Ex nA motors is IP66.

Dielectric Strength Test

All Ex nA motors shall be subjected to a routine dielectric strength test in accordance with the requirements of EN 60079-15.

16 Report Number

SGS Baseefa certification report GB/BAS/ExTR14.0039/00.

17 Specific Conditions of Use

1. The equipment may present a potential electrostatic charging hazard; the user instructions shall be followed in order to minimize the risk of electrostatic discharge.
2. For arrangements which include a separate motor driven cooling fan, these shall be tested to verify that the rating of the cooling fan motor is not exceeded.
3. The RTDs, thermistors and thermocouples must be connected to an appropriate intrinsically safe system. They must be tested at 500V to ground and must be grounded whenever dielectric testing of the machine takes place.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
B-PPA101	1 of 1	A	19/3/2014	General Arrangement of PPA Motors Frames 112 – 132 Ex e, Ex nA & Ex t
B-PPA102	1 of 1	A	19/3/2014	General Arrangement of PPA Motors Frames 160 – 200 Ex e, Ex nA & Ex t
B-PPA103	1 of 1	A	19/3/2014	General Arrangement of PPA Motors Frames 225 – 315 Ex e, Ex nA & Ex t
B-PPA104	1 of 1	A	19/3/2014	General Arrangement of PPA Motors Frames 355 – 400 Ex e, Ex nA & Ex t
B-PPA109	1 of 1	A	26/3/2014	Stator Internal Connection, Insulation, Testing PPA Motor Frames 80 - 400 Ex e, Ex nA & Ex t Protection
B-PPA110	1 of 1	A	26/3/2014	Parts List for PPA Motor Frame 112 Ex e, Ex nA & Ex t Protection
B-PPA111	1 of 1	A	26/3/2014	Parts List for PPA Motor Frame 132 Ex e, Ex nA & Ex t Protection
B-PPA112	1 of 1	A	26/3/2014	Parts List for PPA Motor Frame 160 Ex e, Ex nA & Ex t Protection
B-PPA113	1 of 1	A	26/3/2014	Parts List for PPA Motor Frame 180 Ex e, Ex nA & Ex t Protection
B-PPA114	1 of 1	A	26/3/2014	Parts List for PPA Motor Frame 200 Ex e, Ex nA & Ex t Protection
B-PPA115	1 of 1	A	26/3/2014	Parts List for PPA Motor Frame 225 Ex e, Ex nA & Ex t Protection
B-PPA116	1 of 1	A	26/3/2014	Parts List for PPA Motor Frame 250 Ex e, Ex nA & Ex t Protection
B-PPA117	1 of 1	A	26/3/2014	Parts List for PPA Motor Frame 280 Ex e, Ex nA & Ex t Protection
B-PPA118	1 of 1	A	26/3/2014	Parts List for PPA Motor Frame 315 Ex e, Ex nA & Ex t Protection
B-PPA119	1 of 1	A	26/3/2014	Parts List for PPA Motor Frame 355 Ex e, Ex nA & Ex t Protection
B-PPA120	1 of 1	A	27/3/2014	Parts List for PPA Motor Frame 400 Ex e, Ex nA & Ex t Protection
B-PPA122	1 of 1	A	6/3/2014	PPA / PPC Ex e, Ex nA, Ex t Nameplate Details Frame 80 - 400
B-PPA123	1 of 1	A	27/3/2014	Nameplate Placement 80 - 400 Frame PPA / PPC
B-PPA123A	1 of 1	A	27/3/2014	Alternative Warning Label Details 80 - 400 Frame PPA / PPC
B-PPA124	1 of 1	A	27/3/2014	Options for PPA / PPC Ex e, Ex nA & Ex t Motors
B-PPA125	1 of 1	A	27/3/2014	Terminal Box Sizes for PPA Motor Frame 112 - 400 Ex e, Ex nA & Ex t Protection
B-PPA126A	1 of 1	A	27/3/2014	Terminal Board PPA Motor Frame 112 - 132 Ex e Protection
B-PPA127	1 of 1	A	27/3/2014	Terminal Board PPA Motor Frame 160 - 200 Ex e Protection
B-PPA129A	1 of 1	A	31/3/2014	Terminal Board PPA Motor Frame 225 - 280 Ex e Protection
B-PPA130A	1 of 1	A	31/3/2014	Terminal Board PPA Motor Frame 315 Ex e Protection
B-PPA130B	1 of 1	A	31/3/2014	Terminal Board PPA Motor Frame 315 Ex e Protection (Alternative)
B-PPA130C	1 of 1	A	31/3/2014	Terminal Board PPA Motor Frame 315 Ex e Protection (Alternative)
B-PPA131	1 of 1	A	31/3/2014	Terminal Board PPA Motor Frame 315, 355 - 400 Ex e Protection
B-PPA137	1 of 1	A	31/3/2014	Fan Clearances of PPA Motors Frames 80 – 400 Ex e, Ex nA & Ex t Protection
B-PPA138	1 of 1	A	31/3/2014	Placement of Protection Devices
B-PPA138A	1 of 1	A	31/3/2014	Anti-Condensation Heater Allocations 80 - 400 Frames
B-PPA139	1 of 1	A	31/3/2014	Auxiliary Box Fitting Arrangement
B-PPA140	1 of 1	A	31/3/2014	Drain Plug Fitment
B-PPA141	1 of 1	A	31/3/2014	Blanking Plate and Extended Leads
B-PPA142	1 of 1	A	31/3/2014	Forced Ventilation by Separately Driven Cooling Fan
B-PPA142A	1 of 1	A	31/3/2014	Forced Ventilation by Separately Driven Cooling Fan (Option 1)
B-PPA142B	1 of 1	A	31/3/2014	Forced Ventilation by Separately Driven Cooling Fan (Option 2)

Number	Sheet	Issue	Date	Description
B-PPA144	1 of 1	A	2/4/2014	General Arrangement of PPA Motors Frames 80 – 100 Ex e, Ex nA & Ex t
B-PPA146	1 of 1	A	2/4/2014	Parts List for PPA Motor Frame 80 Ex e, Ex nA & Ex t Protection
B-PPA147	1 of 1	A	2/4/2014	Parts List for PPA Motor Frame 90 Ex e, Ex nA & Ex t Protection
B-PPA148	1 of 1	A	2/4/2014	Parts List for PPA Motor Frame 100 Ex e, Ex nA & Ex t Protection
B-PPA149	1 of 1	A	2/4/2014	Terminal Board PPA Motor Frame 80 - 100 Ex e, Ex nA & Ex t Protection
B-PPA156	1 of 1	A	2/4/2014	Fan Cover Air Outlet for 80 - 400 Frames
B-PPA157	1 of 1	A	2/4/2014	Auxiliary Terminal
B-PPA158	1 of 1	A	2/4/2014	Optional Gasket Placement on Terminal Boxes for 80 - 400 Frames
B-PPA139AU	1 of 1	A	31/3/2014	Auxilliary Terminal Box Fitting Arrangement - Supplementary Details
B-PPA140AU	1 of 1	A	31/3/2014	Drain Plug Details
B-PPA158AU	1 of 1	A	2/4/2014	Terminal Box Drawing including Thickness, Fixing Points, Gasket Details (80 - 100)
B-PPA159AU	1 of 1	A	2/4/2014	Terminal Box Drawing including Thickness, Fixing Points, Gasket Details (112 - 132)
B-PPA160AU	1 of 1	A	2/4/2014	Terminal Box Drawing including Thickness, Fixing Points, Gasket Details (160 - 200)
B-PPA161AU	1 of 1	A	2/4/2014	Terminal Box Drawing including Thickness, Fixing Points, Gasket Details (225 - 315)
B-PPA162AU	1 of 1	A	2/4/2014	Terminal Box Drawing including Thickness, Fixing Points, Gasket Details (315)
B-PPA163AU	1 of 1	A	2/4/2014	Terminal Box Drawing including Thickness, Fixing Points, Gasket Details (355 - 400)
B-PPA164AU	1 of 1	A	2/4/2014	Typical General Arrangement Drawing for PPA80 - 100 Frame
B-PPA165AU	1 of 1	A	2/4/2014	Typical General Arrangement Drawing for PPA112 - 132 Frame
B-PPA166AU	1 of 1	A	2/4/2014	Typical General Arrangement Drawing for PPA160 - 280 Frame
B-PPA167AU	1 of 1	A	2/4/2014	Typical General Arrangement Drawing for PPA315 - 400 Frame
B-PPA168AU	1 of 1	A	2/4/2014	Terminal Board Details PPA80 - 132 - Supplementary Information
B-PPA169AU	1 of 1	A	2/4/2014	Terminal Board Details PPA160 - 200 - Supplementary Information
B-PPA170AU	1 of 1	A	2/4/2014	Terminal Board Details PPA225 - 315 - Supplementary Information
B-PPA171AU	1 of 1	A	2/4/2014	Terminal Board Details PPA315 - Supplementary Information
B-PPA172AU	1 of 1	A	2/4/2014	Terminal Board Details PPA315 - 400 - Supplementary Information
B-7454A	1 of 1	A	2/4/2014	Vibration Sensor Adaptor
B-7454B	1 of 1	A	2/4/2014	Vibration Sensor Extension
B-7473A	1 of 1	A	2/4/2014	Vibro-Lube Adaptor
B-7473B	1 of 1	A	2/4/2014	Vibro-Lube Extension
B-7476A	1 of 1	A	2/4/2014	RTD Arrangement, 250 - 400 Frame PPA
B-7476B	1 of 1	A	2/4/2014	Vibration sensor Arrangement, 250 - 400 Frame PPA

The drawings above are common to Baseefa14ATEX0038X, Baseefa14ATEX0039X, IECEx BAS 14.0008X and IECEx BAS 14.0017X and copies are held with the latter two certificates.

Number	Sheet	Issue	Date	Description
B-PPA151	1 of 1	A	26/3/2014	PPA Ex nA Motor Loadability with Frequency Converter

The drawings above are common to Baseefa14ATEX0039X and IECEx BAS 14.0017X and are held with the latter.

Number	Sheet	Issue	Date	Description
B-PPA132A	1 of 1	A	31/3/2014	Terminal Board PPA Motor Frame 112 - 132 Ex nA & Ex t Protection(1000V)
B-PPA133	1 of 1	A	31/3/2014	Terminal Board PPA Motor Frame 160 - 200 Ex nA & Ex t Protection
B-PPA134	1 of 1	A	31/3/2014	Terminal Board PPA Motor Frame 225 - 280 Ex nA & Ex t Protection
B-PPA135	1 of 1	A	31/3/2014	Terminal Board PPA Motor Frame 315 Ex nA & Ex t Protection

The drawings above are common to Baseefa14ATEX0039X and IECEx BAS 14.0017X and are held with the latter.