



EC-TYPE EXAMINATION CERTIFICATE

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

EC-Type Examination Certificate Number : **BAS00ATEX2205X**

Equipment or Protective System: **W-DA 71-180 AND W-DF 80-180 CAGE INDUCTION MOTORS**

Manufacturer: **INVENSYS BROOK CROMPTON**

Address: **St Thomas Road, Huddersfield, HD1 3LJ**

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

The Electrical Equipment Certification Service, notified body number 600 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report N°

00(C)0692/1 dated 12 June 2001

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

EN 50281-1-1: 1998

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

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.

This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

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

II 2D T125°C

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

File No: EECS 0165/03/025

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



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I M CLEARE
DIRECTOR
4 July 2001



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Description of Equipment or Protective System

A range of cage induction motors with shaft centre heights from 71 mm to 180 mm made from either cast iron (80 mm to 180 mm only) or aluminium (71 mm to 180 mm).

The motors are of totally enclosed construction and are fully described in the drawings listed in this report and on the certificate. Motors are rated for S1 duty within the limits of Class 'F' or Class 'H' insulation when connected to a 3 phase supply up to 100 Hz and 800 volts maximum having a symmetry not worse than that defined in IEC 60034-1 clause 6.2.11. The air gap must be sufficient for the maximum rotational speed of the motor. Class 'H' insulation may be used with adjusted outputs provided that the temperature class T3 is not exceeded.

The motors may be supplied for horizontal, vertical, c-flange or pad mounting. In the case of machines supplied for vertical (shaft down) mounting, a sheet steel drip proof cover is fitted to prevent foreign bodies falling into the fan inlet.

Polarity and Multi speed

Motors of higher pole numbers than listed in the drawings may be manufactured. Multi-speed machines, either multi-winding or tapped winding may be manufactured in a frame having mechanical dimensions associated with any of its pole numbers providing that the air gap is not less than that appropriate to the lowest pole number.

Rotor Construction

The rotor laminations are held on the mandrel whilst the aluminium bars and short circuiting rings are pressure die cast to form an integral rotor. The complete core and cage assembly is then either pressed or shrunk onto the shaft.

Rotor dynamic balancing is achieved by either subtracting weight by drilling the rotor core or by adding washers to integral balance pips or to the rotor blades.

Fan Cover

A sheet steel fan cover is fitted as standard to all motors

Cooling Fans

The cooling fans may be either plastic (polypropylene) or metal (cast iron or aluminium).

Plastic fans are secured radially with a key and axially by a circlip. Metal fans are additionally secured by a grub screw which may or may not have a lock nut. Fans with peripheral speeds greater than 50 ms⁻¹ must always be metal.



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Plastic fans are only used as follows, either:-

- (a) A natural (white) conductive polypropylene Type Novolen 2300 manufactured by Targor Polypropylene, to be used between T_{amb} -30°C to $+60^{\circ}\text{C}$, see BASEEFA Test Report 00(T)6101, dated 6.3.01, held on EECS File No. 0245/44/004,

OR

- (b) A black Nylon 6 Grade BF13BK manufactured by Warwick Polymers UK, to be used between T_{amb} -20°C to $+60^{\circ}\text{C}$, see BASEEFA Test Report 00(T)6101, dated 6.3.01.

Terminal Boxes

The various terminal boxes allowable on this range of motors are fully described in the certified drawings.

Cast iron motors W-DF 80-180 may be fitted with cast iron or aluminium terminal boxes and lids of the same material. Frame sizes up to 90 may use an aluminium terminal box with a sheet steel lid.

Aluminium motors up to frame size W-DA 90 use an aluminium terminal box with a sheet steel lid. Larger frame sizes use cast aluminium terminal boxes and lids.

Neoprene gaskets are used between the terminal box and the body and the terminal box and the lid. The gasket between the box and the lid is adhered to the lid.

Terminal boxes may be mounted directly to the motor frame, using an adaptor plate if necessary or remotely according to Drawing No. Y08AC010/0 provided certified Brook Crompton terminal boxes and boards are used. Terminal enclosure size may be increased to the next size in the range if required.

Terminal Boards

Component approved terminal boards covered by BASEEFA Certificate No. Ex 89C3051U are used with creepage and clearances meeting or exceeding the requirements of EN 50281-1-1: 1998. The only exception to this is when an oversize terminal box is required for a W-DF 160 or 180 motor in which case the terminal box / board arrangement shown on drawing no. Y42AC001/0 is used. The creepage and clearance distances for this arrangement satisfy the requirements of EN 50281-1-1: 1998.

The certification drawings specify which boards can be used with which terminal boxes for each motor frame size.

Loose Leads

The motors may be supplied with loose leads fitted with crimp connections as described on drawing no. Y08AC012/0.



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Auxiliary Connections

Auxiliary connections may be made using Klippon BK2 terminals covered by certificate BAS98ATEX3084U which can be mounted within the main terminal boxes in the positions shown on the certification drawings. Alternatively, when a cast iron terminal box is used, an auxiliary terminal box shown on drawing no. Y08AC011/0 may be used containing Klippon BK3 or BK4 terminals also covered by certificate BAS98ATEX3084U.

Auxiliaries

The motors may be fitted with thermistors and anti-condensation heaters.

Thermistors may be embedded into each phase or cemented to the periphery of the winding over hang. They may be fitted singularly or in multiples. Extension leads, if required, are insulated with class F sleeving and secured to windings.

Anti condensation heaters type RCH/E manufactured by Resistance Heating Technology and covered by certificate BAS00ATEX2103U may be fitted by Ivensys Brook Crompton in accordance with the instructions provided by the heater manufacturer and special conditions listed on the certificate.

Ambient Temperature

The motors are designed for use in an ambient temperature range from -20°C to 40°C. This may be extended to -55°C to 60°C by making suitable design and material changes. In this case the certification plate described on drawing Y08AC016 will be marked accordingly.

Air Stream Rated Motors

Motors may be air stream rated, with four mounting pads on the frame periphery, without mounting feet and the external fan cowl omitted. The minimum air velocity required along the surface of the motor is indicated on the motor rating and nameplate label.

Enhanced Corrosion Protection

All internal surfaces may be corrosion protected with a paint/varnish layer.

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Special Conditions For Safe Use

1. The supply lead insulation must be suitably rated for the supply.
2. Embedded temperature detectors must be connected to earth during high voltage tests of the stator windings.
3. All drain plugs must be replaced and sealed immediately after use.



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4. When anti-condensation heaters are fitted, unless it is specifically indicated on the motor data plate that they remain energised whilst the motor is energised, the supply to the heaters must be interlocked so that it cannot be connected whilst the motor is running.
5. Any unused cable entries shall be blanked using suitably approved cable blanks.
6. When the machine is used on an inverter derived supply the supply must automatically be tripped when detectors in the windings indicate a temperature of 160°C.
7. When using a c-flange mounting the manufacturers instructions must be followed to ensure the IP rating of the motor is maintained.
8. Motors fitted with plastic fans of type (a) shall not be used below -30°C, and those fitted with fans of type (b) shall not be used below -20°C.

18 Essential Health and Safety Requirements

All requirements are covered by compliance with EN 50281-1-1: 1998.

19 DRAWINGS

Number	Issue	Date	Description
** Y08AC016/0	0	8/7/00	Typical arrangement - dust proof motors
* Y08AC007/1	1	19/4/01	General assembly
* Y08AC008	0	25/4/00	Running clearances
* Y08AC009	0	25/4/00	Al & Fe terminal boxes
* W37AC003	0	25/4/00	Al box 100-180
* D06AC003	0	25/4/00	Al box 71-90
* Y42AC001	0	26/9/00	Fe oversize box 160-180
* Y08AC015	0	21/6/00	Heater and thermistor details
* Y08AC010	0	25/4/00	Remote terminal box
* Y08AC011	0	25/4/00	Auxiliary terminal box
* Y08AC012	0	25/4/00	Crimped loose leads

* These drawings are used in common with Certificates BAS00ATEX3119X and Certificate BAS00ATEX3206X and are held on file EECS 0165/03/024.

** This drawing is used in common with Certificates BAS00ATEX3206X and BAS00ATEX3119X and is held on file EECS 0165/03/025.

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BASEEFA List Keywords
23PHIMOT

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 **BAS00ATEX2205X/1**
Examination Certificate Number:

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: **W-DA71-180 and W-DF80-180 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. BAS00ATEX2205X 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.

9 Item 9 of the original Certificate is replaced by “Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-31:2014

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

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

⊕ II 2 D Ex tb III C T125°C or T135°C Db T_{amb} (See equipment description)

SGS Baseefa Customer Reference No. **5233**

Project File No. **19/0619**

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R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

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Schedule

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Certificate Number BAS00ATEX2205X/1

15 Description of the variation to the Product

Variation 1.1

To assess the Range of Cage Induction Motors with frame sizes W-DA71-180 and W-DF80-180 against the following standards: EN IEC 60079-0:2018 and EN 60079-31:2014. The equipment has been assessed and is in compliance with the standards listed.

Variation 1.2

To note a change to the range of frame sizes covered by this certificate. The previous frame sizes covered by this certificate are listed as W-DA71-190 and W-DF80-180, these have now changed to W-DA71-180 and W-DF80-180.

Variation 1.3

To change minimum ambient temperature from -55°C to -54°C based on manufacturer performance data for adhesive.

Variation 1.4

To add the cable and ATEX certified gland termination arrangement to allow motor to be supplied with loose cable for termination in remote terminal box.

Variation 1.5

To add ATB Tamel M8 and M10 terminal board Types P4566 & P4223 afforded BAS01ATEX2273U and remove ATB Motorentechnik Type KM and Emil A. Peters Type PLD terminals from the certification.

Variation 1.6

To permit a change in crimp types used for the connection of loose leads or cables for motors supplied for use with remotely mounted terminal boxes.

Variation 1.7

To permit the motor leads to be connected to the stator by clamp as an alternative to welding.

Variation 1.8

To add thermistors or thermostats to be used as thermal protectors in stator windings.

Variation 1.9

To permit additional nameplate fitted to terminal box lid to be attached with full cover rivets.

Variation 1.10

To remove the optional Class H winding insulation system from the certificate.

Variation 1.11

To introduce Oil Seal & "V" Ring and Oil Seal & Gamma Seal alternative types of bearing sealing arrangement.

Variation 1.12

To note minor drawing changes.

Variation 1.13

To amend the product (equipment) description and include additional 'Specific Conditions of Use', as required by the variations listed above and in order to align with Ex ec and Ex tc certification for the equivalent frame sizes.

The product description has been updated as detailed below;

Product Description

The range of cage induction motors with shaft centre heights from 71mm to 180mm is made from either cast iron (80 to 180mm only) or aluminium (71mm to 180mm). Motors are rated for S1 duty within the limits of Class F when connected to a 3 phase supply up to 100Hz and 800V maximum.

The motors are designed for use in an ambient temperature range from -20°C to +40°C. This may be extended to -54°C to +60°C by making suitable design and material changes.

The motors are of totally enclosed construction and are rated IP65.

The motors may be supplied for horizontal, vertical or with pad mounting. In the case of machines supplied for vertical (shaft down) mounting, a sheet steel drip proof cover is fitted to prevent foreign bodies falling into the fan inlet.

Polarity and Multi speed.

Motors of higher pole numbers than listed in the drawings may be manufactured. Multi-speed machines, either multi-winding or tapped windings may be manufactured in a frame having mechanical dimensions associated with any of its poles numbers providing that the air gap is not less than that appropriate to the lowest pole number.

Rotor Construction.

The rotor laminations are held on the mandrel whilst the aluminium bars and short circuiting rings are pressure die cast to form an integral rotor. The complete core and cage assembly is then either pressed or shrunk onto the shaft. Rotor dynamic balancing is achieved by either subtracting weight or adding weights at specific locations.

Bearings.

The motors are fitted with ball bearings with roller, duplex or angular contact bearings used to suit the mechanical load for the individual motor. V-ring, oil, non-contact and labyrinth type seals are fitted and used to seal the bearings. Optionally, for applications where a greater degree of ingress protection is required, an Oil Seal & "V" Ring or Oil Seal & Gamma Seal arrangement may be utilised.

Fan Cover.

A sheet steel fan cover is fitted as standard to cast iron motors but this may be replaced by cast iron. An additional sheet cover is provided for impact protection on certain frames and on all vertically (shaft down) mounted motors.

External Cooling Fans.

The cooling fans may be either plastic or metal. Plastic fans are secured radially with a key and axially by a circlip. Metal fans are additionally secured by a grub screw which may or may not have a lock nut. Fans with peripheral speeds greater than 50m/s must always be metal.

Terminal Boxes.

Cast iron motors W-DF 80-180 may be fitted with cast iron or aluminium terminal boxes. Frame sizes up to 90 may use an aluminium terminal box with a sheet steel lid.

Aluminium motors up to frame size W-DA 90 use an aluminium terminal box with a sheet steel lid. Larger aluminium frame sizes use cast aluminium terminal boxes.

The terminal boxes are fitted with neoprene or silicone gaskets to create a seal with a minimum rating of IP65 between the terminal box and the terminal box lid and between the terminal box and the motor frame. The terminal boxes can be mounted directly to the motor frame using an adapter plate, if necessary. Alternatively, the terminal boxes may be mounted remotely utilising an adaptor plate with an ATEX certified gland and cable arrangement or an appropriate conduit and conduit bushing arrangement.

Oversized terminal boxes are permitted to be fitted to the motors as long as they are suitably rated for the intended purpose.

The terminal boxes are fitted with ATEX component approved terminal boards / blocks, as detailed below.

Manufacturer	Description / Type	Certificate Number(s)
Weidmüller Interface GmbH & Co	Terminals MK/BK Series	TUV18ATEX8209U
ATB Tamel Spolka Akcyjna	A Range of Motor Terminal Boards	BAS01ATEX2273U

Loose Leads.

The motors may be supplied with loose leads fitted with crimp connections covered with vinyl, nylon or poliamid insulation. The crimp connections are further insulated with additional sleeving which meets insulation class 'F'.

Auxiliaries.

The motors may be fitted when required with thermistors, thermostats and the ATEX component certified anti-condensation heaters, detailed below.

Manufacturer	Description / Type	Certificate Number(s)
Resistance Technology Limited	Type RCH/e Anti-condensation Heater	BAS00ATEX2103U

The thermistors / thermostats may be embedded into each phase or cemented to the periphery of the winding overhang. They may be fitted singularly or in multiples. Extension leads, if required, are insulated with class F sleeving and secured to the windings.

Provision is also made for fitting other ATEX equipment certified auxiliary items which are not the subject of this certification. The manufacturer shall ensure that this equipment is suitably certified for its intended use and will take into account any specific conditions of use when incorporating them into the series of motors.

Air Stream Rated Motors.

The motors may be installed in air stream without external fan and fan cowl. The minimum air velocity required along the surface of the motor is indicated on the motor marking plate(s).

Earth Terminals.

An Earth terminal is fitted to the motor frame and also within the terminal boxes.

Variation 0.1

All internal surfaces of the motors open to corrosion may be protected with a paint/varnish layer.

Variation 0.2

For special / customized applications the Ex tb motors may be assigned the alternative temperature class of T135°C.

16 Report Number

GB/BAS/ExTR19.0336/00

17 Specific Conditions of Use

The 'Specific Conditions of Use' have changed from those previously listed. The revised 'Specific Conditions of Use' are listed in full below for clarity;

1. The supply lead insulation must be suitably rated for the supply.
2. All supply connection must be made with insulated crimped lugs. Additional heat shrink sleeving must be fitted over the lugs in case the integrity of the insulation is damaged during crimping.
3. There must be no loose conductor strands after the supply leads have been connected.
4. All terminal screws, supply and auxiliary, must be tightened fully whether in use or not.

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5. Embedded temperature detectors must be connected to earth during the high voltage test of the stator windings.
6. All drain and inspection plugs must be replaced and sealed immediately after use.
7. When anti-condensation heaters are fitted, unless it is specifically indicated on the motor data plate that they remain energised whilst the motor is energised, the supply to the heaters must be interlocked so that it cannot be connected whilst the motor is running.
8. Any unused cable entries shall be blanked using suitably approved cable blanks.
9. When the machine is used on an inverter derived supply, as specified in the description, it is rated at T200°C and the supply to the machine must be automatically tripped when detectors in the windings indicate a temperature of 160°C.
10. Cable entry devices, adaptors or reducers and blanking plugs used on the motor frames must be suitably ATEX equipment certified and maintain the IP rating of the enclosure.
11. Before using a motor with a plastic external cooling fan, the resistance of the material to any solvent vapour which is likely to be present should be ascertained. Exposure to the vapours of certain solvents may cause swelling of the fan material, thus allowing the fan to become loose on the shaft and the motor to overheat.
12. To maintain the IP65 rating of the motor, the end shields or any screws which break the wall of the enclosure shall not be removed.
13. To avoid an electrostatic build up only clean external motor surfaces with a damp cloth.
14. The external fans must not be exposed to temperatures above the following;
 - Polyamide +81°C.
 - Tarnamid +50°C.
 - Starflam +105°C.

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is affected as follows.

Clause	Subject	Compliance
1.2.7	LVD type requirements	Pass
1.2.8	Overloading of equipment (protection relays, etc.)	Pass
1.4.1	External effects	Pass
1.4.2	Aggressive substances, etc.	Pass

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
1P48T0091	1 of 1	A	07.11.2019	*Maximum Size Cable Entries For Use On Ex ec W Series Motors Frames W-DF200L-355L
2P20T1629	1 of 1	0	11/01/1900	Maximum Size Cable Entries For Ex ec Motors
2P22T0936	1 of 1	2	08.11.2019	Anti-Condensation Heater & Thermistor, Thermostats Details For W-DA71-180 & W-DF80-180 Non-Sparking Motors To Oversize Auxiliary Box Ex ec Motors To IEC/EN60079-7
3P20T3649	1 of 1	0	13.11.19	Nameplate Ex ec
3P20T3670	1 of 1	0	09.01.2020	*Paint Systems

Number	Sheet	Issue	Date	Description
3P22T1919	1 of 1	2	07/11/2019	Details Of W-DF112-180 Cast Iron Auxiliary Terminal Box To Be Fitted To Cast Iron Boxes For Ex ec Motors To IEC/EN60079-7
3P24T1964	1 of 1	2	18.11.19	*Non-Metallic Material List
3P41T3645	1 of 1	0	12.11.19	Terminal Arrangement Of W-DF200LX Terminal Box And Board For Use
D06AC003	1 of 1	5	07.11.2019	Drawing Showing Details Of D71-90 Aluminium Terminal Box For Ex ec Non-Sparking Motors To IEC/EN60079-7
W37AC003	1 of 1	5	08/11/2019	Certification Drawing For W-DA100L - W-DA180M/L Terminal Box And Boards, Ex ec Non-Sparking Motors To IEC/EN60079-7
Y08AC007	1 of 1	8	12/11/2019	Typical Arrangement Of W-DA 71-180 & W-DF 80 - 180 Ex ec Non-Sparking Motors To EN60079-7 (Detachable Foot Motors)
Y08AC008	1 of 1	4	08.11.19	Drawing Showing All Running Clearances For W-DA 71-180 & W-DF 80-180 Ex ec Non-Sparking Motors To IEC/EN60079-7
Y08AC009	1 of 1	5	08/11/2019	Drawing Showing W-DF 80-180 Cast Iron Alternatively Aluminium Rectangular Split Terminal Boxes For Ex ec Non-Sparking Motors To IEC/EN60079-7 With Terminal Board Mounting Pillars
Y08AC010	1 of 1	3	07.11.2019	Typical Arrangement Showing Terminal Box Remote Mounted For Ex ec W-DA71-180 & W-DF80-180 Motors To IEC/EN60079-7
Y08AC011	1 of 1	3	07.11.2019	Details Of W-DA71-180 & W-DF80-180 Cast Iron Auxiliary Terminal Box To Be Fitted To Cast Iron Boxes For Ex ec Motors To IEC/EN60079-7
Y08AC012	1 of 1	3	07.11.2019	Drawing Showing Dimensions For Insulated Crimp Sizes For W-DA71-180 & W-DF80-180 Frame Ex ec Loose Lead Motors To IEC/EN60079-7
Y08AC015	1 of 1	3	07.11.2019	Anti-Condensation Heater & Thermistor/Thermostats Details For W-DA71-180 & W-DF80-180 Non-Sparking Motors To Ex ec Motors To IEC/EN60079-7
Y08AC016	1 of 1	1	07.12.16	Typical Arrangement Of W-DA71-180 Aluminium & W-DF80-180 Cast Iron Frame Dust Ignition Proof Motors To EN60079-31
Y08AC018	1 of 1	2	07.11.2019	Drawing Showing Alternative W-DF80-180 Cast Iron Terminal Box Design For Ex ec Motors To IEC/EN60079-7
Y08AC019	1 of 1	4	08/11/2019	Drawing Showing W-DF80-180 Cast Iron Alternatively Aluminium Rectangular Split Terminal Boxes For Ex ec Non-Sparking Motors To IEC/EN60079-7 With Terminal Board Platform
Y42AC001	1 of 1	3	08.11.19	Terminal Arrangement Of W-DF200L Terminal Box And Board For Use On W-DA Or W-DF160/180 Non-Sparking Ex ec Motors To IEC/EN60079-7

All drawings are common to BAS00ATEX3119X and IECEx BAS 15.0113X and are held on the latter.

* Indicates drawings are also common to IECEx BAS 15.0114X, BAS00ATEX3133X, BAS00ATEX3119X and BAS99ATEX2217X.