Certificate Number Baseefa17ATEX00076X



Issued 12 July 2017 Page 1 of 5

EU - TYPE EXAMINATION CERTIFICATE

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

3 EU - Type Examination Baseefa17ATEX0076X

Certificate Number:

1

4 Product: A Range of Induction Motors Frame size 80 to 315.

5 Manufacturer: TECO Electric & Machinery Co. Limited

6 Address: Factory Number I & II, 11 An Tung Road, Chung Li Industrial District.

Taoyuan, 320, Taiwan

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

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/ExTR14/0201/00.

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

EN 60079-0: 2012 + A11: 2013 EN 60079-31: 2014

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.
- 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:

(a) II 2 D Ex th IIIC T135°C Db IP66 Ta -20°C to +55°C

SGS Baseefa Customer Reference No. 3903

Project File No. 13/0578

This document is issued by the Company subject to its General Conditions for Certification Services accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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

TECHNICAL MANAGER
On behalf of SGS Baseefa Limited



Issued 12 July 2017 Page 2 of 5

Schedule Schedule

Certificate Number Baseefa17ATEX0076X

15 Description of Product

14

The Range of Induction Motors of Frame Size 80 to 315 comprises of a stator frame, endshields and a terminal box all manufactured from cast iron. The single ended, foot or drive end face and flange mounted motors may be provided with thermal sensors in the windings. The motors may be vertically mounted, shaft down, when provided with a cowl over the fan cowl.

The motors can be provided with anti-condensation heaters to IECEx BAS13.0144U / BAS00ATEX2103U, breather drain plugs to IECEx 11.0076X/Baseefa 11ATEX0154X, auxiliary terminals to IECEx SIR 05.0036U / Sira 01ATEX3248U, and IECEx PTB 04.0003U / PTB98ATEX3129U.

The 2 to 8 pole motors are rated up to 690Vac, 50/60Hz, 315kW, and have the following outputs at 50Hz and are to be supplied from a sinusoidal supply for S1 duty only.

Frame	Maximum	Frame	Maximum
size	output (kW)	size	output (kW)
80	1.1	180	22
90	2.3	200	37
100	3	225	45
112	4	250	55
132	7.5	280	90
160	18.5	315	315

The motors and be also marked Ex tc IIIC T135°C Dc IP55 Ta -20°C to +55°C.

16 Report Number

GB/BAS/ExTR14/0201/00

17 Specific Conditions of Use

- 1. The cable glands are to be provided with sealing gaskets to maintain the IP rating.
- 2. The incoming mains cables are to be provided with insulated crimped terminals lugs to maintain the minimum clearance distance.

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

19	Drawings	and	Documents
----	----------	-----	------------------

Number	Issue	Date	Description
33049B951001	1	03.31.17	Typical General Arrangement Foot Mounted Type Motor for Frames 80 ~ 225 Ex n, Ex tD
33049B951011	1	03.31.17	Typical General Arrangement Flange Mounted Type Motor for Frames $80 \sim 225 \text{ Ex n}$, Ex tD
33049B951021	1	03.31.17	Typical General Arrangement Foot Mounted Type Motor for Frames 180 \sim 250 Ex n, Ex tD
33049B951031	1	03.31.17	Typical General Arrangement Flange Mounted Type Motor for Frames $180 \sim 250~\text{Ex}$ n, Ex tD
33049B951051	1	03.31.17	Typical General Arrangement Foot Mounted Type Motor for Frames 80 \sim 225 Ex n, Ex tD
33049B951061	1	03.31.17	Typical General Arrangement Flange Mounted Type Motor for Frames $80 \sim 225~Ex~n, Ex~tD$
33049B951071	1	03.31.17	Typical General Arrangement Foot Mounted Type Motor for Frames 180 \sim 250 Ex n, Ex tD
33049B951081	1	03.31.17	Typical General Arrangement Flange Mounted Type Motor for Frames $180 \sim 250 \; \text{Ex} \; \text{n, Ex tD}$
3W040F594	2	Jul. 01.2014	Typical General Arrangement Foot Mounted Type Motor for Frames 280S~280M Ex n, Ex tD
3W040F595	-	Jun.27.2014	Typical General Arrangement Foot Mounted Type Motor for Frames 315S~315L Ex n, Ex tD
3W040F642	-	Jul.22.2014	Typical General Arrangement Foot Mounted Type Motor for Frames 315D Ex n, Ex tD
3W040F596	-	Jul.01.2014	Typical General Arrangement Flange Mounted Type Motor for Frames 280S~280M Ex n, Ex tD
3W040F597	-	Jul.01.2014	Typical General Arrangement Flange Mounted Type Motor for Frames 315S~315M Ex n, Ex tD
3W040F651	-	Jul.19.2014	Typical General Arrangement Foot Mounted Type Motor for Frames 280S~280M Ex n, Ex TD
3W040F652	-	Jul.19.2014	Typical General Arrangement Foot Mounted Type Motor for Frames 315S~315L Ex n, Ex Td
3W040F653	-	Jul.21.2014	Typical General Arrangement Foot Mounted Type Motor for Frames 315D Ex n, Ex tD
3W040F655	-	Jul.22.2014	Typical General Arrangement Flange Mounted Type Motor for Frames 280S~280M Ex n, Ex tD
3W040F656	-	Jul.22.2014	Typical General Arrangement Flange Mounted Type Motor for Frames 315S~315M Ex n, Ex tD
33049C951001	1	04.01.17	Bolt size for Frames $80 \sim 225$
33049C951011	1	06.15.17	Bolt size for Frames $180 \sim 250$
33049C951021	1	07.23.16	Threaded Entries for Frames 80 ~ 225
33049C951031	1	07.23.16	Threaded Entries for Frames 180 ~250
3W040F618	0	06.12.14	Threaded Entries for Frames 280S~315
33049B951040	0	06.06.14	Typical Stator & Rotor & Shaft materials for Frame 80-250
3W041C491	0	05.20.06	Typical Stator & Rotor & Shaft materials for Frame 280S-315
3W040Z527	0	06.22.17	Name Plate
3W040Z504	0	06.14.17	Name Plate
33049C951041	1	05.11.17	Name Plate and Label Position Frames 80-250

Certificate Number Baseefa17ATEX00076X



Issued 12 July 2017 Page 4 of 5

Number	Issue	Date	Description
33049D951001	1	05.10.17	Name Plate IE2 for Frames 80-132
33049D951021	1	05.15.17	Name Plate IE3 for Frames 80-132
3W040M846	1	Jun.25.2014	Name Plate IE2 for Frames 315
3W040M847	1	Jun.25.2014	Name Plate IE3 for Frames 315
33049D951051	1	05.10.17	Name Plate Ex Dust Marking
31049R133420	0	09.04.08	Name Plate Heater Label
33049D951080	0	06.05.14	Name Plate Gasket Warning Label
33049D951330	0	06.01.17	Name Plate Thread Size and Cable Temperature
33049C951041	1	05.11.17	Name Plate Positions
33049C951051	1	07.23.16	Air Gap Calculation for Frames 80-250 (Ex nA)
3W040F623	2	May.20.200 8	Air Gap Calculation for Frames 280S-315 (Ex nA)
33049C951060	0	07.23.14	Clearance Between Fan Cover & Fan for Frames 80-250
3W041C611	0	07.04.16	Clearance Between Fan Cover & Fan for Frames 280S-315
33049C951071	1	07.07.16	Bracket Clearance and Shaft Seal Arrangement for Frames $80 \sim 225$
33049C951081	1	07.06.16	Bracket Clearance and Shaft Seal Arrangement for Frames $180 \sim 250$
33049D951090	0	06.05.14	Creepage & Clearance distances for frames 80-250
33049C951093	3	04.05.17	Terminal Box Ex n & Ex tD Type 13V
33049C951103	3	06.15.17	Terminal Box Ex n & Ex tD Type 16V
33049C951113	3	06.15.17	Terminal Box Ex n & Ex tD Type 26V
33049C951123	3	04.05.17	Terminal Box Ex n & Ex tD Type 36V
33049C951133	3	06.15.17	Terminal Box Ex n & Ex tD Type 56V
33049C951141	1	06.15.17	Auxiliary Terminal Box for Frames 80-250
33049C951151	1	04.01.17	Bearing RTD Terminal Box Ex n & Ex tD for Frames 160-250
33049C951161	1	06.15.17	WDG RTD Terminal Box Ex n & Ex tD for Frames 80-250
3W040M834	3	Jun.24.2014	Terminal Box Ex n & Ex tD Type 76V
3W040M819	4	Jun.20.2014	Terminal Box Type TW-66V
3W040M860	1	Jun.30.2014	Terminal Box - RTD
3W041C589	2	Jun.25.2014	Terminal Box - Accessories
3W040M841	2	Jun.25.2014	Terminal Box - Accessories
33049D951200	0	06.05.14	Cable Entries for frames 160-250
3W040M820	0	06.23.14	Cable Entries for frames 315
3W040M857	0	06.30.14	Cable Entries for frames 280S~315
33049D951221	1	06.15.17	Gasket for Terminal Box TW-16V
33049D951231	1	06.15.17	Gasket for Terminal Box TW-13V-56V
33049D951211	1	04.05.17	Gasket for Terminal Box TW-13V-56V
3W040M829	1	Jun.23.2014	Gasket for Terminal Box TW-66V-76V
3W040M830	2	Jun.24.2014	Gasket for Terminal Box TW-66V-76V
3W040M831	2	Jun.24.2014	Gasket for Terminal Box TW-66V-76V
3W040M851	1	Jun.30.2014	Gasket – Cable Gland
3W040M852	1	Jun.30.2014	Gasket – Terminal Box Seat and Cover
3W040M853	1	Jun.30.2014	Gasket – Terminal Plate

Certificate Number Baseefa17ATEX00076X



Issued 12 July 2017 Page 5 of 5

Number	Issue	Date	Description
3W040M854	1	Jun.30.2014	Gasket – Cable Gland
3W040M855	1	Jun.30.2014	Gasket - Terminal Box Seat and Cover
3W040X488	1	Jul.23.2016	Gasket - Terminal Plate
3B040X492	0	04.23.08	Gasket - Oil Drain cover
33049C951170	0	03.27.17	Terminals Frame Size 80-90
33049C951180	0	04.01.17	Terminals Frame Size 100-132
33049C951190	0	04.01.17	Terminals Frame Size 160-180
33049C951200	0	04.05.17	Terminals Frame Size 200-225
33049C951210	0	04.05.17	Terminals Frame Size 250-280
33049C951220	0	07.23.14	Wire Connecting Seat for Thermistor
33049C951240	0	05.12.17	Wire Connecting Seat for RTD
3W040Z280	0	12.17.09	Wire Connecting Seat
3W040Z281	0	12.17.09	Wire Connecting Seat
31057R9982	0	2009.07.06	Stator Insulation Details - Class H
31057R9978	0	2009.07.06	Stator Insulation Details - Class F
31865D070	8	03.20.14	Shaft Seal Details
31865D079	1	06.19.09	Shaft Seal Details - Gamma