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:	**Baseefa17ATEX0076X**
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.

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 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.

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 :

⟨Ex⟩ II 2 D Ex tb IIIC T135°C Db IP66 Ta -20°C to + 55°C or

⟨Ex⟩ II 3 D Ex tc IIIB T135°C Dc IP55 Ta -20°C to + 55°C

SGS Baseefa Customer Reference No. **3903** Project File No. **13/0578**

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pp R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

13 **Schedule**

14 **Certificate Number Baseefa17ATEX0076X**

15 Description of Product

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, IECEx PTB 04.0003U / PTB98ATEX3129U, and IECEx PTB 07.0007U / PTB99ATEX3117U.

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 size	Maximum output (kW)	Frame size	Maximum 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 above values may be increased by 1.15 for use on 60Hz supplies.

The motors may be provided with an additional label marked in the name of TECO Westinghouse

16 Report Number

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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 ~ 225 Ex n, Ex tD
33049B951021	1	03.31.17	Typical General Arrangement Foot Mounted Type Motor for Frames 180 ~ 250 Ex n, Ex tD
33049B951031	1	03.31.17	Typical General Arrangement Flange Mounted Type Motor for Frames 180 ~ 250 Ex n, Ex tD
33049B951051	1	03.31.17	Typical General Arrangement Foot Mounted Type Motor for Frames 80 ~ 225 Ex n, Ex tD
33049B951061	1	03.31.17	Typical General Arrangement Flange Mounted Type Motor for Frames 80 ~ 225 Ex n, Ex tD
33049B951071	1	03.31.17	Typical General Arrangement Foot Mounted Type Motor for Frames 180 ~ 250 Ex n, Ex tD
33049B951081	1	03.31.17	Typical General Arrangement Flange Mounted Type Motor for Frames 180 ~ 250 Ex n, Ex tD
3W040F594	2	Jul. 01.2014	Typical General Arrangement Foot Mounted Type Motor for Frames 280S~280M Ex n, Ex tD
3W040F595	1	Jun.27.2014	Typical General Arrangement Foot Mounted Type Motor for Frames 315S~315L Ex n, Ex tD
3W040F642	1	Jul.22.2014	Typical General Arrangement Foot Mounted Type Motor for Frames 315D Ex n, Ex tD
3W040F596	2	Jul.01.2014	Typical General Arrangement Flange Mounted Type Motor for Frames 280S~280M Ex n, Ex tD
3W040F597	1	Jul.01.2014	Typical General Arrangement Flange Mounted Type Motor for Frames 315S~315M Ex n, Ex tD
3W040F651	1	Jul.19.2014	Typical General Arrangement Foot Mounted Type Motor for Frames 280S~280M Ex n, Ex TD
3W040F652	1	Jul.19.2014	Typical General Arrangement Foot Mounted Type Motor for Frames 315S~315L Ex n, Ex Td
3W040F653	1	Jul.21.2014	Typical General Arrangement Foot Mounted Type Motor for Frames 315D Ex n, Ex tD
3W040F655	1	Jul.22.2014	Typical General Arrangement Flange Mounted Type Motor for Frames 280S~280M Ex n, Ex tD
3W040F656	1	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 ~ 225
33049C951011	1	06.15.17	Bolt size for Frames 180 ~ 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

Number	Issue	Date	Description
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
33049D951001	1	05.10.17	Name Plate IE2 for Frames 80-132
33049D951021	1	05.15.17	Name Plate IE3 for Frames 80-132
33049D951011	1	06.30.17	Name Plate IE2 for Frames 160-280
33049D951031	1	06.30.17	Name Plate IE3 for Frames 160-280
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 Zone 21
33049D951070	0	07.26.17	Name Plate Ex Dust Marking Zone 22
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
33049D951370	0	07.19.17	Name Plate TECO Electric & Machinery Co. Ltd.
33049D951360	0	07.19.17	Name Plate TECO Westinghouse
33049C951051	1	07.23.16	Air Gap Calculation for Frames 80-250 (Ex nA)
3W040F623	2	May.20.2008	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 ~ 225
33049C951081	1	07.06.16	Bracket Clearance and Shaft Seal Arrangement for Frames 180 ~ 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

Number	Issue	Date	Description
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
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
33049C951230	0	07.23.14	Wire Connecting Seat for Heater
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

Number	Issue	Date	Description
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