

EU - TYPE EXAMINATION CERTIFICATE

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

- 1 EU - Type Examination Certificate Number: **Baseefa15ATEX0237X**
- 2 Product: **Range of W22Xe Induction Motors Frame Sizes 63 to 355**
- 3 Manufacturer: **WEG Equipamentos Eletricos S.A**
- 4 Address: **Av. Prefeito Waldemar Grubba, 3000. Jaragua do Sul, SC,
CEP: 89256-900, Brazil**
- 5 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 6 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.
- 7 The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR15.0289/00**
- 8 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012 +A11: 2013 EN 60079-7: 2015 EN 60079-31: 2014
except in respect of those requirements listed at item 18 of the Schedule.
- 9 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.
- 10 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.
- 11 The marking of the product shall include the following :
- 12 **II 2G Ex eb IIC T3 Gb Tamb (See certificate description)**
II 2D Ex tb IIIC T125°C Db

SGS Baseefa Customer Reference No. **5886**

Project File No. **14/0995**

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R S SINCLAIR
M POWNEY

R S SINCLAIR
TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

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Schedule

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Certificate Number Baseefa15ATEX0237X

15 Description of Product

The W22Xe range of small induction motors has shaft centre heights ranging from 63 to 355mm and comprises cast iron or aluminium frames for horizontal or vertical, pad, foot and/or flange mounting. The flanges may be oversize or undersize as required. The motor enclosure provides a degree of protection of at least IP55 for equipment Group II and IP65 for equipment Group III. The range covers 2 to 8 pole, 3 phase windings and are designed for connection to supplies up to 690V, 50Hz or 60Hz, efficiency level IE2 or IE3 and temperature class T3, which includes T2 and T1 use. The tE time and starting current ratio data for the standard range of machines is shown below.

IEC/EN												
50Hz			IE2 efficiency					IE3 efficiency				
			T amb. 40°C		T amb. 50°C			T amb. 40°C		T amb. 50°C		
Pole	Frame	Output (kW)	IL/In	TE (s) - T3	TE (s) - T2/T1	TE (s) - T3	TE (s) - T2/T1	IL/In	TE (s) - T3	TE (s) - T2/T1	TE (s) - T3	TE (s) - T2/T1
2	63	0.18	5	22	22	20	20	5.1	24	24	22	22
		0.25	4.5	17	17	15	15	4.5	19	19	17	17
	71	0.37	5.3	22	22	20	20	5.3	24	24	22	22
		0.55	6.6	12	18	10	16	6.6	14	18	12	16
	80	0.75	6.1	14	25	12	23	6.3	15	25	13	23
		1.1	6.2	11	23	9	21	7.5	11	23	9	21
	90	1.1	7	12	19	10	17	7	12	19	10	17
		1.5	7	9	15	7	13	7	9	15	7	13
		2.2	7.5	6	12	5	11	7.5	6	12	5	11
	100	2.2	8.6	9	22	7	20	8.6	9	22	7	20
		3	8.5	6	22	5	21	8.5	6	22	5	21
	112	3	6.9	9	30	7	28	6.9	9	30	7	28
		3.7	7.7	6	22	5	21	7.7	6	22	5	21
	132	4	7	12	24	10	22	7	13	24	11	22
		5.5	7.2	11	16	9	14	7.2	11	16	9	14
		7.5	8.2	6	10	5	9	8.2	6	10	5	9
	160	7.5	7.3	17	17	15	15	7.3	17	17	15	15
		11	7.2	10	12	8	10	7.2	10	12	8	10
		12.5	7.3	7	9	5	7	7.3	7	9	5	7
	180	12.5	7	11	18	9	16	7	11	18	9	16
		15	7	8	18	6	16	7	8	18	6	16
		18.5	7.5	6	15	5	14	7.5	6	15	5	14
	200	18.5	7	11	30	10	29	7	11	30	10	29
		22	6.7	11	34	9	32	6.7	11	34	9	32
		25	7	7	30	5	28	7	7	30	5	28
	225	30	7	8	13	6	11	7	8	13	6	11
		37	7.2	6	11	5	10	7.2	6	11	5	10

	250	37	7.3	9	19	7	17	7.3	9	19	7	17
		45	7.7	6	17	5	16	7.7	6	17	5	16
	280	45	7	12	27	10	25	7	12	27	10	25
		55	7	9	27	7	25	7	9	27	7	25
		75	7.6	8	12	6	10	7.6	8	12	6	10
		80	7.6	7	10	5	8	7.6	7	10	5	8
	315	75	7	10	25	8	23	7	10	25	8	23
		110	7.5	6	20	5	19	7.5	6	20	5	19
		132	7.5	6	20	5	19	7.5	6	20	5	19
4	63	0.12	4.2	20	30	18	28	4.2	20	30	18	28
		0.18	4.4	19	30	17	28	4.4	19	30	17	28
	71	0.25	4.8	20	30	18	28	4.8	20	30	18	28
		0.37	4.8	19	30	17	28	4.8	19	30	17	28
	80	0.55	6.6	20	20	18	18	6.6	20	20	18	18
		0.75	6.5	18	18	16	16	6.7	19	19	18	18
	90	1.1	7	17	17	15	15	7.6	17	17	15	15
		1.5	7.4	17	17	15	15	7.4	17	17	15	15
	100	2.2	6.9	12	18	10	16	7.4	12	18	10	16
		3	7.8	12	15	10	13	7.8	12	15	10	13
	112	4	7	13	15	11	13	7	14	15	12	13
	132	5.5	7	10	14	8	12	8.3	10	14	8	12
		7.5	8.3	6	7	5	6	8.3	7	7	6	6
	160	9.2	7.2	14	16	12	14	7.2	14	16	12	14
		11	7.5	12	12	10	10	7.5	12	12	10	10
		15	7.2	12	12	10	10	7.2	12	12	10	10
	180	15	7	8	19	7	17	7	8	19	7	17
		18.5	7.4	7	13	6	12	7.4	7	13	6	12
		22	7.3	6	11	5	10	7.3	6	11	5	10
	200	22	6.2	10	12	8	10	6.2	12	12	10	10
		30	7.3	6	12	5	11	7.3	6	12	5	11
	225	30	7.3	10	13	8	11	7.3	12	13	10	11
		37	6.9	10	13	8	11	6.9	12	13	10	11
		45	7.5	6	15	5	14	7.5	6	15	5	14
	250	45	7	10	15	8	13	7	10	15	8	13
		55	7.5	7	14	6	13	7.5	7	14	6	13
		60	7.5	6	14	5	13	7.5	6	14	5	13
	280	70	7.5	7	30	6	29	7.5	7	30	6	29
		75	7.7	7	30	6	29	7.7	7	30	6	29
		82	7.8	6	28	5	27	7.8	6	28	5	27
	315	95	7	10	30	8	28	6	10	30	8	28
		110	7	8	31	6	29	6	8	31	6	29
		132	7.5	6	29	5	28	7.5	6	29	5	28
		150	7.5	6	25	5	24	7.5	6	25	5	24

		150	7.4	10	22	8	20	7.4	10	22	8	20
	355	175	7.5	9	22	7	20	7.5	9	22	7	20
		200	7.5	8	15	6	13	7.5	8	15	6	13
		250	7.5	8	15	6	13	7.5	8	15	6	13
6	71	0.25	3.1	32	30	30	28	-	-	-	-	-
	80	0.37	4.3	24	25	22	23	4.1	27	27	25	25
		0.55	4.6	20	20	18	18	4.5	21	21	19	19
	90	0.55	5.1	19	35	17	33	5.2	22	35	20	33
		0.75	5.2	17	31	15	29	5.2	20	31	18	29
		1.1	5.5	17	20	15	18	5.5	17	20	15	18
	100	1.1	4.9	17	32	16	31	4.9	18	32	16	30
		1.5	5.5	17	31	15	29	5.5	18	31	16	29
	112	1.5	6	20	28	18	26	6	22	28	20	26
		2.2	6	20	26	18	24	6	22	26	20	24
	132	3	5.8	12	35	10	33	5.8	12	35	10	33
		4	6.1	12	25	10	23	6.1	12	25	10	23
		5.5	7	11	26	9	24	7	12	26	10	24
	160	7.5	6.3	14	16	12	14	6.3	14	16	12	14
		9.2	6.5	12	18	10	16	6.5	13	18	11	16
		11	7.1	12	12	10	10	7.1	12	12	10	10
	180	15	7.7	14	14	12	12	7.7	14	14	12	12
	200	18.5	6.3	10	16	8	14	6.3	10	16	8	14
		22	6.4	10	15	8	13	6.4	10	15	8	13
	225	30	7.5	9	15	7	13	7.5	9	15	7	13
	250	37	7.7	10	21	8	19	7.7	10	21	8	19
	280	45	6.4	12	31	10	29	6.4	13	31	11	29
		55	6.8	12	27	10	25	6.8	12	27	10	25
		75	7.9	12	19	10	17	7.9	12	19	10	17
	315	90	7	8	31	6	29	7	8	31	6	29
		110	7	8	31	6	29	7	8	31	6	29
		132	7.9	6	25	5	24	7.9	7	25	5	23
	355	132	7.6	6	29	6	29	7.6	7	30	6	29
		160	7.7	6	29	6	29	7.7	7	30	6	29
		185	7.6	6	29	5	28	7.6	6	25	5	24
		200	7.5	6	29	5	28	7.5	6	29	5	28
		220	7.5	6	29	5	28	7.5	6	29	5	28
8	80	0.18	3.3	22	30	20	28	3.3	22	30	21	29
		0.25	3.5	20	30	18	28	3.5	20	30	18	28
	90	0.37	3.7	21	30	19	28	3.7	22	30	20	28
		0.55	3.8	20	29	18	27	3.8	20	29	18	27
	100	0.75	4.6	20	30	18	28	4.6	22	30	20	28
		1.1	4.6	20	30	18	28	4.6	20	30	18	28
	112	1.1	4.6	20	28	18	26	4.6	22	28	20	26
		1.5	5	18	28	15	25	5	20	28	17	25

132	2.2	6.2	18	27	15	24	6.2	18	27	15	24
	3	6.4	18	21	15	18	6.4	18	21	15	18
160	4	5	18	34	18	34	5	20	34	18	32
	5.5	5	18	28	18	28	5	20	28	18	26
	7.5	5.3	18	22	18	22	5.3	20	22	18	20
180	9.2	6	16	16	16	16	6	18	18	16	16
	11	6.5	16	16	16	16	6.5	18	18	16	16
200	11	4.8	15	34	14	33	4.8	17	34	15	32
	15	4.8	15	34	14	33	4.8	17	34	15	32
225	18.5	6.5	15	28	14	27	6.5	17	28	15	26
	22	6.5	15	22	14	21	6.5	16	22	14	20
250	30	7.4	15	18	13	16	7.4	17	18	15	16
	37	8.5	15	15	13	13	8.5	15	15	13	13
280	37	6	15	32	13	30	6	15	32	13	30
	45	6	12	30	10	28	6	12	30	10	28
	55	5.8	10	26	8	24	5.8	10	26	8	24
315	75	6	10	33	8	31	6	10	33	8	31
	90	6	10	33	8	31	6	10	33	8	31
	110	6	10	28	8	26	6	10	28	8	26
355	132	6.2	8	31	6	29	6.2	8	31	6	29
	160	6.4	8	31	6	29	6.4	8	31	6	29
	185	6.3	8	31	6	29	6.3	8	31	6	29
	200	6.2	8	31	6	29	6.2	8	31	6	29

VIK												
50Hz			IE2 efficiency					IE3 efficiency				
			IL/In	T amb. 40°C		T amb. 50°C		IL/In	T amb. 40°C		T amb. 50°C	
Pole	Frame	Output (kW)		TE (s) - T3	TE (s) - T2/T1	TE (s) - T3	TE (s) - T2/T1		TE (s) - T3	TE (s) - T2/T1	TE (s) - T3	TE (s) - T2/T1
2	63	0.18	5	22	22	20	20	5.1	24	24	22	22
		0.25	4.5	17	17	15	15	4.5	19	19	17	17
	71	0.37	5.3	22	22	20	20	5.3	24	24	22	22
		0.55	6.6	12	19	10	17	6.6	14	19	12	17
	80	0.75	6.1	14	16	12	14	6.3	17	18	15	16
		1.1	6.2	11	22	10	21	7.5	11	22	9	20
	90	1.3	6.5	12	12	10	10	7.5	14	27	12	25
		1.85	6.5	11	14	9	12	7.5	11	14	9	12
	100	2.5	8.6	9	9	7	7	8.6	9	10	7	8
	112	3.3	6.9	10	13	9	12	6.9	10	24	8	22
	132	4.6	7	12	13	10	11	7.0	13	28	11	26
		5.5	7.2	11	13	9	11	7.2	11	13	9	11
		6.5	7.5	8	10	7	9	7.5	8	10	7	9
	160	7.5	7.3	17	23	15	21	7.3	18	23	16	21

		10	7.2	12	23	10	21	7.2	13	23	11	21
		12.5	7.3	10	15	8	13	7.3	10	15	8	13
	180	15	6.7	10	17	9	16	6.7	10	17	8	15
	200	20	6.7	11	28	9	26	6.7	11	28	9	26
		24	6.7	10	20	9	19	6.7	10	23	8	21
	225	28	7	10	27	8	25	7.0	10	27	8	25
	250	36	7.3	9	29	8	28	7.3	9	32	7	30
	280	47	6.5	12	35	10	33	6.5	12	35	11	34
		58	6.7	10	33	9	32	6.7	10	33	8	31
	315	68	7.3	11	34	9	32	7.3	11	34	9	32
		80	6.8	10	33	8	31	6.8	10	33	8	31
4	63	0.12	4.2	20	40	18	38	4.2	20	40	18	38
		0.18	4.4	19	33	17	31	4.4	19	33	17	31
	71	0.25	4.2	20	40	18	38	4.8	20	43	18	41
		0.37	4.5	19	42	17	40	4.8	19	42	17	40
	80	0.55	5.9	20	20	18	18	6.6	20	20	18	18
		0.75	6.5	18	18	16	16	6.7	22	22	20	20
	90	1	6.4	20	20	18	18	7.6	23	23	21	21
		1.35	6.2	17	17	15	15	7.4	19	19	17	17
	100	2	6.6	14	14	12	12	7.4	15	21	13	19
		2.5	6.9	12	17	10	15	7.8	14	17	12	15
	112	3.6	6.3	14	15	12	13	6.3	15	17	13	15
	132	5	6.9	11	11	9	9	6.9	11	17	9	15
		6.8	7	10	11	8	9	8.3	10	12	8	10
	160	10	6.3	14	18	12	16	7.5	14	18	12	16
		13.5	6.4	11	13	9	11	7.2	12	13	10	11
	180	15	6.6	11	21	9	19	6.6	12	21	10	19
		17.5	6.6	10	13	9	12	6.6	10	17	8	15
	200	24	6.2	12	18	10	16	6.2	12	18	10	16
	225	30	7.3	12	21	10	19	7.3	12	21	10	19
		36	6.9	12	18	10	16	6.9	12	18	10	16
	250	44	6.4	11	23	9	21	6.4	11	23	9	21
	280	58	7.3	9	31	8	30	7.3	9	31	7	29
		70	7	10	33	8	31	7	10	33	8	31
	315	84	6.9	10	33	8	31	6.9	10	33	8	31
		100	7.1	15	38	13	36	4.9	15	38	13	36
6	71	0.25	3.1	30	53	30	53	-	-	-	-	-
	80	0.37	4.3	24	29	22	27	4.1	27	29	25	27
		0.55	4.6	20	21	18	19	4.5	22	22	20	20
	90	0.65	4.9	19	26	17	24	5.2	22	35	20	33
		0.95	5.3	17	21	15	19	5.2	20	26	18	24
	100	1.3	4.9	22	25	20	23	5.5	24	41	22	39
	112	1.9	7.3	22	22	20	20	6	24	24	22	22
	132	2.6	5.4	22	39	20	37	5.4	24	39	22	37

		3.5	5.6	20	31	18	29	6.1	22	38	20	36
		4.8	6	19	27	17	25	6	20	27	18	25
	160	6.6	6	22	22	20	20	6	24	24	22	22
		9.7	5.8	19	19	17	17	6.3	20	20	18	18
	180	13.2	8.2	17	17	15	15	8.2	19	19	17	17
	200	16.5	5.8	17	18	15	16	5.8	18	18	16	16
		20	5.8	12	16	10	14	6.4	12	23	10	21
	225	27	6.6	14	21	12	19	6.6	15	21	13	19
	250	33	6.1	14	25	12	23	6.1	15	25	13	23
	280	40	6	13	30	11	28	6.3	14	30	12	28
		46	6.1	12	26	10	24	6.5	12	26	10	24
	315	64	5.9	14	37	12	35	6	14	37	12	35
		76	5.4	13	36	11	34	5.5	13	36	11	34
8	100	0.65	4.2	22	45	20	43	4.4	24	47	22	45
		0.95	4.2	20	38	18	36	4.3	22	38	20	36
	112	1.3	4.9	20	37	18	35	5	24	37	22	35
	132	1.9	5	20	34	18	32	6.5	20	38	18	36
		2.6	5.2	19	27	17	25	6.4	19	27	17	25
	160	3.5	4.6	22	34	20	32	5	24	34	22	32
		4.8	4.6	21	27	19	25	5	22	39	20	37
		6.6	4.8	20	23	18	21	5.3	22	31	20	29
	180	9.7	5.6	17	17	15	15	6.5	21	21	19	19
	200	13.2	4.5	20	30	18	28	4.8	22	30	20	28
	225	16.5	6.7	20	26	18	24	6.7	22	26	20	24
		20	6.8	18	20	16	18	6.8	22	22	20	20
	250	27	7	15	18	13	16	7	17	18	15	16
	280	33	5.1	18	35	16	33	5.1	19	37	17	35
		40	5.2	17	31	15	29	5.8	18	35	16	33
	315	50	5.3	14	37	12	35	5.3	16	39	14	37
		68	5.8	13	35	11	33	5.8	14	37	12	35

The motors are continuously rated for S1, S2 and S9 duty as defined in IEC 60034-1 and are for connection to a three phase supply having form and symmetry not worse than defined in IEC 60034-1.

Bearing Arrangements

The stator frame is machined at either end onto which the machined spigot cast iron end shields are fitted. The end shields carry the bearing arrangements which are ball, angular contact or roller bearings and may be grease or oil lubricated. Optional bearing insulation is available and the bearing housings may be cast or fabricated.

Stator

The stator core packs are built from insulated 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 which are built from insulated steel laminations are interference fit onto the steel shaft. The rotor cage is die-cast aluminium and balancing of the rotor is achieved by fixing washers to cast studs on the rotors.

Terminal Arrangement

The motors are fitted with separate bolt-on cast iron terminal boxes fitted with bolt-on covers incorporating a gasket which is adhered to one surface.

Main terminal boxes contain cast polyester resin/fibre glass insulator blocks incorporating steel terminal studs, earthing terminals and optionally auxiliary terminals.

Auxiliary terminal boxes contain ATEX component certified terminals, details of which are shown below:

Manufacturer	Type	Certificate Number
WEG	Type K1M..	* PTB03ATEX1153U
	Type WA	PTB06ATEX1078U
ERICH GEISS GmbH & Co. KG	Terminal blocks	* PTB99ATEX3119U * PTB99ATEX3120U * PTB99ATEX3121U * PTB99ATEX3122U * PTB99ATEX3123U
WAGO	Type 264-***/*/*	PTB98ATEX3129U
BARTEC	Type 07-9702-0*2*/****	PTB99ATEX3117U

Components marked with * have been accepted based on a manufacturers Declaration of Conformity stating compliance to harmonised standards. The declarations have not been verified as part of the assessment for this certificate.

Optionally the auxiliary terminal box may be integrally cast with the main terminal box or be a bolt-on addition to the main terminal box.

Any size of terminal box can be fitted to any of the frame sizes within the range as long as they are suitable rated for their intended use and it is physically possible to do so.

Ventilation

Various methods of cooling are used including TEBC, TEFC, TEO or TENV. For TEBC versions a separately ATEX certified blower motor is utilised and optionally an ATEX certified encoder or brake may be attached to the main motor shaft.

External fans, when used, are manufactured from polypropylene, cast iron, bronze or aluminium.

Windings

The low voltage motors are wound using polyester-imide enamel wire with the overhangs suitably insulated and tied with string in order to compact them and keep the insulation between phases in place. The thermal class is 'F' (155°C) and optionally class 'H' (180°C).

Use of Variable Voltage Variable Frequency Drives

The W22 range of small motors may be operated with frequency inverters (variable speed drives) in the following conditions:

- For a motor to operate with the restriction of optimal flux the motor has to be IE2 High Efficiency rated or higher and the motor is to be supplied by a WEG inverter (Type CFW09 version 2.40 or higher, or the CFW11) and be de-rated according to WEG's de-rating curve.
- Use of WEG PWM inverters (variable speed drives) or equivalent brand with carrier frequency from 2000 Hz up to 20000 Hz, with a frequency range up to 100 Hz or in accordance with manufacturer's recommendations.

- When motors are operated below 50 or 60 Hz (nominal frequency) with constant torque loads, or with constant flux conditions, a de-rating factor as per WEG's de-rating Curve for Motors fed by Inverters shall be applied.
- Motors shall be fitted with thermal protective devices which shall be connected into the motor control circuit in order to maintain the T3 for Group II internal/external and T125°C for Group III external surface temperature class.

Auxiliaries

The auxiliaries which may be fitted to this range of machine are:-

- Anti-condensation heaters.
- Winding and bearing temperature detectors (thermal protection devices) comprising RTD's, thermocouples, thermistors or thermostats.
- Vibration monitoring sensors.

Ambient Temperatures

The standard temperature range of the motors is -20°C to +50°C. By the choice of suitable materials and components and use of the de-rating data called up on the certification drawings an ambient range of -55°C to +60°C may be achieved. Individual motors must be marked according to the build of the unit.

Ingress Protection Rating

The ingress protection rating of the motors depend on the shaft seal used:

Shaft seal	IP rating
Lip or V ring	IP55
Oil	IP55 to IP66
Taconite labyrinth	IP55 and IP65
Labyrinth (W3)	IP55 to IP66
W Seal	IP55 to IP66
Inproseal	IP55 to IP66
U Labyrinth	IP55 to IP66

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17 Specific Conditions of Use

1. The installer must ensure that any equipment certified cable glands and stopping plugs fitted to the terminal boxes are suitably ATEX approved. Any unused cable entries must be fitted with ATEX certified stopping plugs. When installed the cable gland or stopping plug must maintain the marked IP rating of the enclosure.
2. All terminal nuts and screws, whether used or not, shall be correctly tightened.
3. When tightening supply connections care should be taken to maintain clearance distances.
4. On auxiliary terminals the conductor insulation shall extend to within 1mm of the terminal throat.
5. There shall be no loose conductor strands on any terminal.
6. Stator winding thermal protection devices and associated thermostats shall be suitably ATEX equipment certified, or are to be separately protected by the use of an intrinsic safety supply that ensures the minimum EPL Gb level of protection.
7. Motors designed for variable frequency drives are fitted with stator winding temperature detection devices that must be connected to the motor control circuit. For other starting methods, the connection of the winding temperature detectors is optional.
8. Motors certified for dust only environments will have no restrictions on the supply connections to any internal thermal protection devices.
9. Anti-condensation heaters shall not be energised whilst the machine is energised.

10. Where auxiliary equipment is fitted that is not covered by this certificate the installer and/or user, as appropriate, must ensure that it is suitable for the conditions of use and that it does not invalidate this certification.

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	Protection against other hazards
1.6.3	Hazards arising from power failure

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
10003772136	1 of 1	0	23.02.2017	Mounting
10003772409	1 of 1	0	23.02.2017	Separated Terminal Box
10003772882	1 of 1	0	23.02.2017	Forced Ventilation
10003772964	1 of 1	0	23.02.2017	Encoder Mounting
10003791329	1 of 1	0	23.02.2017	Thermal Protection Connections
10003791355	1 of 1	0	23.02.2017	Joints and Joining Methods
10003791558	1 of 1	0	23.02.2017	Thermal Protection on Bearings
10003791593	1 of 1	0	23.02.2017	Fan Dimensions
10003792818	1 of 1	0	23.02.2017	Dimensions of Sealing Rubber 63-355 Between Tbox and Tbox Cover
10003800578	1 of 1	0	23.02.2017	Terminal Box with Thread Plate
10003800751	1 of 1	0	23.02.2017	Grounding W22 63-355
10003805551	1 of 1	1	01.03.2017	Nameplates
10003806171	1 of 1	0	23.02.2017	Distance Creepage and Clearance
10003806297	1 of 1	0	23.02.2017	Brake Mounting
10003806304	1 of 1	0	23.02.2017	Creepage and Clearance Distances 63-355
10003806786	1 of 1	0	23.02.2017	Distance Creepage and Clearance
10003806808	1 of 1	0	23.02.2017	Distance Creepage and Clearance 355
10003817124	1 of 1	0	23.02.2017	Additional Nameplates
10003822940	1 of 1	0	23.02.2017	Distance Creepage and Clearances
10003771268	1 of 1	2	28.04.2017	Drain Dimensions
10003771774	1 of 1	0	23.02.2017	Winding Insulation
10003774947	1 of 1	0	23.02.2017	Joints Detail
10003775117	1 of 1	0	23.02.2017	Joints Detail
10003775676	1 of 1	0	23.02.2017	Joints Detail

Number	Sheet	Issue	Date	Description
10003776558	1 of 1	0	23.02.2017	Flange Dimensions
10003779313	1 of 1	0	23.02.2017	Sealing Rubber Dimensions
10003780494	1 of 1	0	23.02.2017	Fan Cover Dimensions
10003780532	1 of 1	0	23.02.2017	Minimum Distance Fan/Fixed Parts
10003780916	1 of 1	0	23.02.2017	Canopy
10003782155	1 of 1	0	23.02.2017	Terminal Box Dimensions
10003786383	1 of 1	0	23.02.2017	Bearing Seals
10003787856	1 of 1	0	23.02.2017	Terminal Box Dimensions
10003789847	1 of 1	0	23.02.2017	Terminal Box Dimensions 2
10003789892	1 of 1	0	23.02.2017	Specification for Low Temperature
10003790223	1 of 1	0	23.02.2017	Terminal Block Dimensions
10003798421	1 of 1	0	23.02.2017	Terminal Box Dimensions with 2 Auxiliary Boxes
10003798742	1 of 1	0	23.02.2017	Dimensions and Threads of Terminal Box
10003800769	1 of 1	0	23.02.2017	Creepage Distances Auxiliary
10003805790	1 of 1	0	23.02.2017	Space Heater
10003805806	1 of 1	0	23.02.2017	De-rating Factor for Altitude and Ambient Temperature
10003806025	1 of 1	0	23.02.2017	Fan Motor Terminal Box
10003810570	1 of 1	0	23.02.2017	Fan Motor Terminal Box
10003813470	1 of 1	0	23.02.2017	B3D/B3E Dimensions
10003814587	1 of 1	0	23.02.2017	Thermal Protection
10003814613	1 of 1	0	23.02.2017	Grounding System
10003814788	1 of 1	0	23.02.2017	De-rating Curve
10003815103	1 of 1	0	23.02.2017	Gland Plate Dimensions
10003815258	1 of 1	0	23.02.2017	Terminal Box Dimensions
10003817773	1 of 1	0	23.02.2017	Creepage Distances
10003822675	1 of 1	0	23.02.2017	B3D/B3E Dimensions
10003824702	1 of 1	0	04.05.2017	Air Gap Data
10003824831	1 of 1	0	23.02.2017	tE times 63 – 355
10003989498	1 of 1	3	06.03.2017	Certified Components
10003992580	1 of 1	0	23.02.2017	Winding Distances Frame 63 – 132
10004050317	1 of 1	0	23.02.2017	Bearing Sealing
10004045896	1 of 1	0	23.02.2017	Routine electrical strength testing
10004196824	1 of 1	0	23.02.2017	Bearing Insulation

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Number	Sheet	Issue	Date	Description
10003999555	1 of 1	0	09/06/2016	BOM Motor – Metallic components materials