



Certificate No.

IECRE.WE.TC.20.0086-R16

IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy Applications

TYPE CERTIFICATE

Wind Turbine

This certificate is issued to

Siemens Gamesa Renewable Energy Innovation &
Technology S.L.
Avda. Ciudad de la innovación 9-11
31621 Sarriguren (Navarra)
Spain

for the wind turbine

SG 3.6-145

wind turbine class (class, standard, year)

S, IEC 61400-1/A1, 2010

This certificate attests compliance with IEC 61400 Series as specified in subsequent pages. It is based on the following reference documents:

Design basis evaluation conformity statement
Dated (*covered in the design evaluation conformity statement)

IECRE.WE.CS.20.0050-R11
30.11.2023

Design evaluation conformity statement
Dated

IECRE.WE.CS.20.0050-R11
30.11.2023

Test evaluation conformity statement
Dated

STC-200608-R12
30.11.2023

Manufacturing evaluation conformity statement
Dated

STC-200610-R10
30.11.2023

Final evaluation report
Dated

R13037983-12a-R15
30.11.2023

The conformity evaluation was carried out in accordance with the rules and procedures of the IECRE System.
www.iecre.org

The wind turbine type specification begins on page 2 of this certificate.

Changes in the system design or the manufacturer's quality system are to be approved by the Certification Body. Without approval, the certificate loses its validity.

This certificate is valid until:
01.12.2025

Approved for issue on behalf of the IECRE
Certification Body:

UL Renewables




Jörn Gerlach
Vice Head of Certification Body
Bremen 30.11.2023

DEWI-OCC GmbH
Contrescarpe 45
28195 Bremen, Germany





IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

Certificate. No.

IECRE.WE.TC.20.0086-R16

TYPE CERTIFICATE

Wind Turbine

Annex I - Wind turbine characteristics

Machine parameters:

Power regulation:	Variable speed and pitch control
Rotor orientation:	upwind
Number of rotor blades:	3
Rotor tilt:	6°
Cone angle:	-4°
Rated power:	3.6 MW
Rated wind speed V_r :	10.0 m/s
Rotor diameter:	145 m
Hub height(s):	127.5 / 133.5 m
Hub height operating wind speed range $V_{in} - V_{out}$:	3 m/s - 20 m/s
Design life time:	20 years
Software version:	Control Architecture V2 or superior

Wind conditions:

Characteristic turbulence intensity I_{ref} at $V_{hub} = 15$ m/s:	15.25 %
Annual average wind speed at hub height V_{ave} :	7.0 m/s
Reference wind speed V_{ref} :	37.4 m/s
Mean flow inclination:	8 degrees
Hub height 50-year extreme wind speed V_{e50} :	52.4 m/s

Electrical network conditions:

Normal supply voltage and range:	690 V $\pm$ 10%
Normal supply frequency and range:	50Hz $\pm$ 6%
Voltage imbalance:	2% - 4%
Maximum duration of electrical power network outages:	not dimensioning
Number of electrical network outages	52/yr.





Certificate. No.

IECRE.WE.TC.20.0086-R16

IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

TYPE CERTIFICATE

Wind Turbine

Other environmental conditions (where taken into account):

Design conditions in case of offshore WT :	NA
Normal and extreme temperature ranges:	Normal: 0°C to +35°C Extreme: 0°C to +50°C
Relative humidity of the air:	Up to 95%
Air density:	1.12 kg/m ³
Solar radiation:	1000 W/m ²
Lightning protection system (standard and protection class):	IEC 61400-24:2010, LPL I
Earthquake model and parameters (standard and key parameters e.g. spectrum, model, seismic zone, soil class, etc.):	NA
Other design conditions :	NA





Certificate. No.

IECRE.WE.TC.20.0086-R16

IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

TYPE CERTIFICATE

Wind Turbine

Annex II - Major components:

****If not otherwise stated, the certificate holder is the manufacturer.**

Blade:

Manufacturer: SGRE (Siemens Gamesa Renewable Energy)
Type: SG145 TB V4
Material: Glass fiber reinforced epoxy resin
Blade length: 71 m
Number of blades: 3

Blade:

Manufacturer: LM Wind Power
LM Wind Power Blades (India) Pvt. Ltd
LM Wind Power (Qinhuangdao) Co. Ltd.
Type: LM 71.0 P2
Material: Glass fiber reinforced polyester
Blade length: 71 m
Number of blades: 3

Blade bearing:

Type: Four point contact double row
Manufacturer: Laulagun Bearings India Private Ltd.
Drawing / Data sheet / Part No.: F3132M00DST0125QBV
F3132M00DST0125QVV

Blade bearing:

Type: Four point contact double row
Manufacturer: Wafangdian Bearing Group Wind Power Bearing Co.
Ltd.
Drawing / Data sheet / Part No.: FL-HSB2889DX1-C4
FL-HSB2889DX1-C5

Blade bearing:

Type: Four-point contact double row
Manufacturer: SKF India Ltd
Drawing / Data sheet / Part No.: 18682A01





Certificate. No.

IECRE.WE.TC.20.0086-R16

IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

TYPE CERTIFICATE

Wind Turbine

Blade bearing:

Type:	Double row four-point contact ball bearing
Manufacturer:	Tianma (Chengdu) Precision Machinery Co., Ltd
Drawing / Data sheet / Part No.:	B030.63.2889K2 B030.63.2889K

Pitch system:

Motor / Actuator Type:	Double acting hydraulic cylinder
Pitch Controller Type:	Hydraulic
Manufacturer (Designer):	SGRE (Siemens Gamesa Renewable Energy)

Main shaft:

Type:	Steel shaft
Manufacturer (Designer):	SGRE (Siemens Gamesa Renewable Energy)
Material:	Forged steel
Drawing / Data sheet / Part No.:	GP554929 GP627780

Main bearing:

Type:	Double-row spherical roller bearing
Manufacturer:	Timken
Drawing / Data sheet / Part No.:	C949521 (230/800 YMDWEW886C) C952045 (WE-1478-A)

Main bearing:

Type:	Double-row spherical roller bearing
Manufacturer:	Koyo / JTEKT Corporation
Drawing / Data sheet / Part No.:	DSA306671 (230/800RHAW33TS1) DSA309921 (231/630RHAW33TS1)

Main bearing:

Type:	Double-row spherical roller bearing
Manufacturer:	ZKL
Drawing / Data sheet / Part No.:	230/800EW33MH TPF 11517-15_NV 231/630EW33MH TPF 11519-15_NV





IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

Certificate. No.

IECRE.WE.TC.20.0086-R16

TYPE CERTIFICATE

Wind Turbine

Main bearing:

Type: Double-row spherical roller bearing
Manufacturer: SKF India Ltd
Drawing / Data sheet / Part No.: BS2-8154/VR726 – (Upwind)
BS2-8155/C3HVR726 – (Downwind)

Gearbox:

Type: Three stages (two planetary gear stages plus one helical gear stage)
Gear Ratio: 1:106.4 (50 Hz)
Manufacturer: SGRE (Siemens Gamesa Renewable Energy)
Drawing / Data sheet / Part No.: gBOX3.65

Gearbox:

Type: Three stages (two planetary gear stages plus one helical gear stage)
Gear Ratio: 1:106.91 (50 Hz)
Manufacturer: Nanjing High Speed Gear Manufacturing Co., Ltd.
(NGC)
Drawing / Data sheet / Part No.: FD4130G

Gearbox:

Type: Three stages (two planetary gear stages plus one helical gear stage)
Gear Ratio: 1:106.444 (50 Hz)
Manufacturer: ZF Wind Power
ZF Wind Power Coimbatore Pvt. Ltd.
ZF Wind Power Tianjin Ltd.
Drawing / Data sheet / Part No.: EH0951A

Yaw Ring:

Manufacturer: Dalian Tracy Slewing Bearing Manufacturing
Company Ltd.
Dalian United Wind Power Generation Bearing Co.
Ltd.
Jiaxing SHIMAI Machinery Co., Ltd
Wheels India Ltd.
Drawing / Data sheet / Part No.: GP499535





Certificate. No.

IECRE.WE.TC.20.0086-R16

IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

TYPE CERTIFICATE

Wind Turbine

Yaw System:

Drive Type: Sliding bearing, activated by yaw drives
Manufacturer (Designer): SGRE (Siemens Gamesa Renewable Energy)
Drawing / Data sheet / Part No.: GD268640
GD523351

Bearing Type: Slide bearing provided by axial and radial PETP bearing pads
Manufacturer (Designer): SGRE (Siemens Gamesa Renewable Energy)
Drawing / Data sheet / Part No.: GD268640
GD523351

Gear Type: Geared by yaw drives
Manufacturer: Bonfiglioli
Drawing / Data sheet / Part No.: 56265331 (710T4)
Manufacturer: Comer
Drawing / Data sheet / Part No.: 5718.050.0508 / N06771_00 (PG 2504DSP)
Manufacturer: NGC
Drawing / Data sheet / Part No.: FDX204S
Manufacturer: Bonfiglioli
Drawing / Data sheet / Part No.: I7090T004704 (709T4)

Brake Type: Yaw claws with active and passive brake pads
Manufacturer: IRUNA INDIAN BRAKES PVT. LTD.
Drawing / Data sheet / Part No.: GP345273 (Lower claw 4 act - 2 pas)
GP345274 (Lower claw 2 act - 4 pas)
GP345275 (Upper part)

Supplier codes: 6700066
6700081
P88.16 C
6700067

Brake Type: Yaw claws with active and passive brake pads
Manufacturer: Altra Industrial Motion India Pvt. Ltd.
Drawing / Data sheet / Part No.: GP608913
GP608916
GP345275





IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

Certificate. No.

IECRE.WE.TC.20.0086-R16

TYPE CERTIFICATE

Wind Turbine

Supplier codes: 390-30261_H
390-a00010
390-a00011

Generator:

Type: Asynchronous doubly-fed machine
Manufacturer (Designer): SGRE (Siemens Gamesa Renewable Energy)
Drawing / Data sheet / Part No.: CR33-6P
Rated Power: 3585 / 3675 kW
Rated Frequency: 50 Hz
Rated Speed: 1120 rpm
Rated Voltage: 690 V
Rated Current (stator / rotor): 2712-2780 A (range) / 1007-1031 A (range)
Insulation Class: F / F
Degree of Protection: IP54 / IP23

Converter:

Type: DAC 3.3 MW
Manufacturer (Designer): SGRE (Siemens Gamesa Renewable Energy)
Drawing / Data sheet / Part No.: GP306944 / GP317306
Rated Voltage (grid side): 0 - 690 / 690 ($\pm 10\%$) V
Rated Current (grid side): 1250 / 660 A
Degree of Protection: IP54

Converter:

Type: DAC CONVERTER 3,4 MW PREMIUM
Manufacturer (Designer): KK Wind Solutions India Pvt. Ltd.
Gamesa Electric S.A. Unipersonal
Siemens Gamesa Renewable Power Private Ltd
Drawing / Data sheet / Part No.: GP443724 (GP451967) / GP443721
Rated Voltage (grid side): 0 - 690 / 690 ($\pm 10\%$) V
Rated Current (grid side): 1250 / 660 A
Degree of Protection: IP54





IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

Certificate No.

IECRE.WE.TC.20.0086-R16

TYPE CERTIFICATE

Wind Turbine

Converter:

Type: DAC CONVERTER 3,465 MW FIRE FIGHTING
Manufacturer (Designer): SGRE (Siemens Gamesa Renewable Energy)
Drawing / Data sheet / Part No: GP439687 / GP439692
Rated Voltage (grid side): 0 - 690 / 690 ($\pm 10\%$) V
Rated Current (grid side): 1250 / 660 A
Degree of Protection: IP54

Transformer:

Type: Three phase dry type
Manufacturer: Hitachi Energy
Drawing / Data sheet / Part No.: DTE 3900/36
Rated Voltage: 33.6 / 0.69 kV
34.5 / 0.69 kV
33 / 0.69 kV
30 / 0.69 kV
Rated Power: 3900 KVA
Location (e.g. tower bottom): Nacelle

Transformer:

Type: Three phase dry type
Manufacturer: Hitachi Energy
Drawing / Data sheet / Part No.: DTE 3900/24
Rated Voltage: 20 / 0.69 kV
Rated Power: 3900 KVA
Location (e.g. tower bottom): Nacelle

Transformer:

Type: Three phase dry type
Manufacturer: SGB Starkstrom Geratebau GmbH
SGB Transformers India Pvt. Ltd





Certificate. No.

IECRE.WE.TC.20.0086-R16

IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

TYPE CERTIFICATE

Wind Turbine

Drawing / Data sheet / Part No.:	DTTH1NG 3150/30 DTTHG 3150/30
Rated Voltage:	33 / 0.69 kV
Rated Power:	3900 KVA
Location (e.g. tower bottom):	Nacelle
Transformer:	
Type:	Three phase dry type
Manufacturer:	Hitachi Energy
Drawing / Data sheet / Part No.:	DTE 3900/AF
Rated Voltage:	34.5 / 0.69 kV
Rated Power:	3900 KVA
Location (e.g. tower bottom):	Nacelle
Transformer:	
Type:	Three phase dry type
Manufacturer:	Hainan Jinpan Smart Technology Co., Ltd.
Drawing / Data sheet / Part No.:	SCLB10-3900/35, 3900 kVA, 35 kV, 50Hz
Rated Voltage:	35 / 0.69 kV
Rated Power:	3900 KVA
Location (e.g. tower bottom):	Nacelle
Wind Turbine Controllers (Cabinets):	
Type:	Stator cabinet (Stator controller)
Manufacturer:	KK Wind Solutions India Pvt. Ltd. Gamesa Electric S.A. Unipersonal Siemens Gamesa Renewable Power Private Ltd
Drawing / Data sheet / Part No.:	GP539786 GP542800
Type:	Top cabinet (Top controller)
Manufacturer:	KK Wind Solutions India Pvt. Ltd. Gamesa Electric S.A. Unipersonal Siemens Gamesa Renewable Power Private Ltd





IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

Certificate. No.

IECRE.WE.TC.20.0086-R16

TYPE CERTIFICATE

Wind Turbine

Drawing / Data sheet / Part No.:	GP556861 / GP570768
Type:	Top cabinet (Top controller)
Manufacturer:	KK Wind Solutions India Pvt. Ltd. Siemens Gamesa Renewable Power Private Ltd
Drawing / Data sheet / Part No.:	GP588993 / GP601173
Type:	Hub cabinet (Hub controller)
Manufacturer:	KK Wind Solutions India Pvt. Ltd. Gamesa Electric S.A. Unipersonal Siemens Gamesa Renewable Power Private Ltd.
Drawing / Data sheet / Part No.:	GP507552 / GP479691 / GP486862
Type:	Tower base cabinet (Ground controller)
Manufacturer:	Gamesa Electric S.A. Unipersonal KK Wind Solutions India Pvt Ltd Siemens Gamesa Renewable Power Private Ltd
Drawing / Data sheet / Part No.:	GP568162 / GP564579 / GP565243
Type:	Tower base cabinet (Ground controller)
Manufacturer:	KK Wind Solutions India Pvt Ltd Siemens Gamesa Renewable Power Private Ltd
Drawing / Data sheet / Part No.:	GP589166 / GP600665 / GP603209
Tower:	
Designer:	SGRE (Siemens Gamesa Renewable Energy)
Type:	Tubular steel tower
Sections:	5
Length:	127.5
Drawing / Data sheet / Part No.:	GD491223
Tower:	
Designer:	SGRE (Siemens Gamesa Renewable Energy)
Type:	Tubular steel tower
Sections:	5





IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

Certificate. No.

IECRE.WE.TC.20.0086-R16

TYPE CERTIFICATE

Wind Turbine

Length: 133.5
Drawing / Data sheet / Part No.: GD557184

Foundation:

Type: N/A
Manufacturer: N/A
Drawing / Data sheet / Part No: N/A

Foundation Adaptor:

Type: N/A
Manufacturer: N/A
Drawing / Data sheet / Part No: N/A

Manuals:

Operation & maintenance manual: See applicable control and protection system evaluation report
Transport manual: See applicable control and protection system evaluation report
Installation & commissioning. manual: See applicable control and protection system evaluation report





Certificate No.

IECRE.WE.TC.20.0086-R16

IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

TYPE CERTIFICATE

Wind Turbine

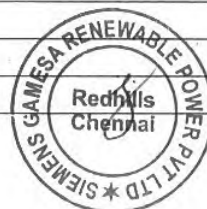
Annex III – Cabinets bill of materials (BoM):

Stator cabinet GP539786 / GP542800 BoM

Name	Number
CORROSION INHIBITOR 230L + BLOCK	VAR0179
FIL_LOT_PFF15U_WITH HOLES	GP390306
FIL_LOT_PFF20U_WITH HOLES	GP390305
FIL_LOT_PFF20U_WITH HOLES	GP390305
FIL_LOT_PFF15U_WITH HOLES	GP390306
FIN_ABB_LS32P51B11_1SBV010351R1211	GP252242
ABB_AF2050-30-11_1SFL707001R7011	GP102875
ABB_HKF1-11_1SAM 201 901 R1001	GP207358
ABB_S1-M1-25_1SAM 201 907 R1101	GP207514
MS132 0,16A 1SAM350000R1001	GP266089
SPD_RAY_PROTEC T2-750 (3+0) R_59.0100	GP509804
TRA_CIR_TCH12 4000/1 25VA_M704880010000	GP323497
FLAT WASHER DIN 125 M6 ZN	P650228
TRA_CIR_TCH12 4000/1 25VA_M704880010000	GP323497
FLAT WASHER DIN 125 M6 ZN	P650228
TRA_CIR_TCH12 4000/1 25VA_M704880010000	GP323497
FLAT WASHER DIN 125 M6 ZN	P650228
RES_STE_CSL028 400W 230V RAIL_02810.0-00	AMB0061
BOLT ISO4017 M6X30 8.8 ZNNI C4	GP270247
AIS_ERICO_ISO TP 60M12_548601	GP321081
HIG_5A_STG_MFR012_01220.0-00	GP007878
KRM_ABB_AF09-30-10-13_1SBL137001R1310	GP206196
TER_PFA_FLZ 510_17103000003	GP243456

Top cabinet GP556861 / GP570768 BoM

Name	Number
RES_STE_CSL028 400W 230V RAIL_02810.0-00	AMB0061
CAX_ABB_MCBH-01_1SFA611605R1110	GP019516
EMERG STOP SIGH CA61026(1SFA619930R1026)	GP070587
HOLDER CONTACT BLOCK(1SFA611605R1101)	GP110565
PUSH BUTTON MP1-10G (1SFA611100R1002)	GP110566
CAX_ABB_MCB-10_1SFA611610R1001	GP272114





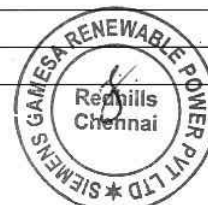
Certificate. No.

IECRE.WE.TC.20.0086-R16

IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

TYPE CERTIFICATE**Wind Turbine**

AMB_LOT_PFF13U	GP284143
SYM_ABB_MPET4-10B_1SFA611523R1006	GP290447
AUX CONT_ABB_S2C-H6R_2CDS200912R0001	GP011149
ABB_HKF1-11_1SAM 201 901 R1001	GP207358
INT_ABB_MO132-10_1SAM360000R1010	GP389963
CIRCUIT BREAKER C-2A 1P NA 230V	INT0430
AMB_LOT_PFF13U	GP284143
ACC_KYL_OPAL5-1M4T-ST05-LV-LV	GP330313
INT_ABB_S201-D20NA_2CDS251103R0201	GP269144
EARTH LEAKAGE RELAY CIRCUTOR RGU-10	GP069476
SPD_RAY_PROTEC T2-300-2+0-R_59.0084	GP509803
INT_ABB_S201NA D6_2CDS251103R0061	INT0513
HOUSING HAN 16B	CNT0225
HAN Q5/0 S3A FEMALE CRMP-TERMINAL 5PIN+E	GP039681
HAN K4/0 S16B FEMALE INSERT 4+0POLES+E	GP042437
HAN 3A - AK COVER 09 20 003 5425	GP086765
HAR_HAN 3A BASE PANEL_09 20 003 0304	GP284330
HAR_HAN 10B-BASE PANEL_09 30 010 1301	GP345046
HAR_HAN K4/4-F 10-22MM2_09 38 008 2702	GP351633
INT_ABB_MPET4-10R_1SFA611523R1001	GP554121
COPPER BRAID_ERI_MBJ 16-150-8_556630	GP453611
COPPER BRAID_ERI_MBJ16-500-8_556940	GP470555
COPPER BRAID_MBJ16-300-8_556660	GP508877
TRAFO_TORITRANS TMN3737 230/24VAC 400VA	GP334063
SPD_RAY_PROTEC_DMMDR_20-24V_510.783	GP509807
TER_ABB_KIT EF XT1 4PCS_1SDA066866R1	GP556089
INT_ABB_MS132-2,5_1SAM350000R1007	GP172176
INT_ABB_MS132-4_1SAM350000R1008	GP207357
ABB_HKF1-11_1SAM 201 901 R1001	GP207358
ABB_PS1-5-0-65_1SAM 201 906 R1105	GP207512
ABB_S1-M1-25_1SAM 201 907 R1101	GP207514
ABB_AF09Z-30-10-21_1SBL136005R2110	GP543159
HIG_5A_STG_MFR012_01220.0-00	GP007878
AUX CONT_ABB_S2C-H6R_2CDS200912R0001	GP011149
CIRCUIT BREAKER ABB F204 A-25/0,03A	GP069343
COVER_ABB_PS2-48-16H_2CDL200001R0001	GP088472
INT_ABB_F202 AC-25/0,03	GP100211
CBR_S203 B10NA_ABB_2CDS253103R0105	GP110580





Certificate. No.

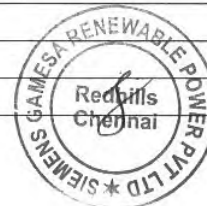
IECRE.WE.TC.20.0086-R16

IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

TYPE CERTIFICATE

Wind Turbine

CAUX_ABB_CA4-10_1SBN010110R1010	GP172167
MO132-16 MOTOR C.BREAKER 12,5-16A 690V	GP172178
ABB_HKF1-11_1SAM 201 901 R1001	GP207358
ABB_S1-M1-25_1SAM 201 907 R1101	GP207514
TER_PFA_FLZ 510_17103000003	GP243456
INT_ABB_S203-C16NA_2CDS253103R0164	GP243465
CAU_ABB_CAL4-11_1SBN010120R1011	GP243608
INT_ABB_S201 C10 NA_2CDS251103R0104	GP243609
INT_ABB_S201 C6 NA_2CDS251103R0064	GP243612
BUS_ABB_PS1-3-0-65_1SAM201906R1103	GP247608
BUS_ABB_PS-END 1_2CDL200001R0002	GP249004
INT_ABB_S203-C25NA_2CDS253103R0254	GP289799
KRM_ABB_AF96-30-00-11_1SBL407001R1100	GP289834
INT_ABB_AF52-30-00-13_1SBL367001R1300	GP305361
RA4 INTERFACE RELAY	GP335319
REL_ABB_EF19-18.9_1SAX121001R1105	GP345064
INT_ABB_MO165-65_1SAM461000R1017	GP346340
REL_ABB_DB19EF_1SAX101910R1001	GP351630
INT_ABB_MS165-54_1SAM451000R1016	GP387818
SEN_CIR_TCH6.2-200-5A_M70444	GP345051
SPD_RAY_PROTEC T2 300-4+0-R_59.0104	GP509800
SPD_RAY_PROTEC T2-300-2+0-R_59.0084	GP509803
INT_ABB_MS132-10_1SAM350010R1010	GP543107
INT_ABB_MS132-1,6_1SAM350010R1006	GP543108
INT_ABB_MS132-1.0_1SAM350010R1005	GP543109
AUX_ABB_1SAM201901R1201	GP543112
ABB_AF16-30-10-13_1SBL177005R1310	GP543113
ABB_MS132-0.4_1SAM350010R1003	GP543132
INT_ABB_MS132-2,5_1SAM350010R1007	GP543133
ABB_AF09Z-30-10-21_1SBL136005R2110	GP543159
INT_MS132-6,3_ABB_1SAM350010R1009	GP543160
KRM_ABB_AF09-30-10-13_1SBL137005R1310	GP543161
CAX_ABB_CA4-01K_1SBN010160R1001	GP554066
CIRCUIT BREAKER D-4A 2P 230Vac	INT0427
CIRCUIT BREAKER C-2A 1P NA 230V	INT0430
HIG_5A_STG_MFR012_01220.0-00	GP007878
AUX CONT_ABB_S2C-H6R_2CDS200912R0001	GP011149
INT_ABB_OT16F4N2_1SCA104829R1001	GP087441





Certificate. No.

IECRE.WE.TC.20.0086-R16

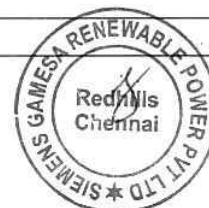
IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

TYPE CERTIFICATE**Wind Turbine**

COVER_ABB_PS2-48-16H_2CDL200001R0001	GP088472
INT_ABB_F202 AC-25/0,03	GP100211
CIRCUIT BREAK S201 D10NA(2CDS251103R0101	GP110573
ABB_AF09-40-00-13_1SBL 137 201 R1300	GP220747
TER_PFA_FLZ 510_17103000003	GP243456
INT_ABB_S201-C16NA_2CDS251103R0164	GP243466
INT_ABB_S201 C6 NA_2CDS251103R0064	GP243612
SCK_ABB_M1175_2CSM210000R0721	GP276600
ROTOR OVERSPEED GUARD ROG-G132	GP347593
REL_ABB_CM-MSS.11P_1SVR740720R1400	GP467217
SPD_RAY_RAYDAT_SBH-3-5_7082.86	GP509808
KRM_ABB_AF09-30-10-13_1SBL137005R1310	GP543161
CIRCUIT BREAKER D-4A 2P 230Vac	INT0427
INT_ABB_S201NA D6_2CDS251103R0061	INT0513
CORROSION INHIBITOR 230L + BLOCK	VAR0179

Hub cabinet GP507552 / GP479691 / GP486862 BoM

Name	Number
EARTH STRAPS. 30CM. TERMINAL 6m	CBL0188
TUBULAR PLASTIC 8MM	VAR0218
CORROSION INHIBITOR 230L + BLOCK	VAR0179
THERMO-FAN STEGO CS0L28. 230V 250W	AMB0154
STEGO filter EF118 ref. 11801.0-00	GP012554
FAN + FILTER STEGO 01801.0-07 11801.0-00	GP140025
AUX CONT_ABB_S2C-H6R_2CDS200912R0001	GP011149
TEMP.sensor Stego ZR011 01172.0-00	GP011664
LOAD BREAK SWITCH OT16F6	GP069649
INT_ABB_F202 AC-25/0,03	GP100211
INT_ABB_S201 C6 NA_2CDS251103R0064	GP243612
3P C6 S203 CIRCUIT BREAKER ABB	GP265262
COPPER BRAID_ERI_MBJ 16-100-8_556620	GP451669
CIRCUIT BREAKER D-4A 2P 230Vac	INT0427
CIRCUIT BREAKER C-2A 1P NA 230V	INT0430
INT_ABB_S201NA D6_2CDS251103R0061	INT0513
THERMOSTAT STEGO NO 01143.0-00	P393467





Certificate. No.

IECRE.WE.TC.20.0086-R16

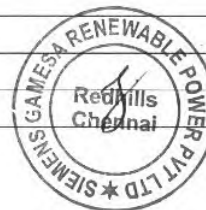
IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

TYPE CERTIFICATE

Wind Turbine

Tower base cabinet GP589166 / GP600665 / GP603209 BoM

Name	Number
ACC_KYL_OPAL8-2S6T-SC40-LV-LV	GP330314
RESISTANCE 9785U 500Ohm WI 5790405550	GP088905
ACC_KYL_OPAL5-1M4T-ST05-LV-LV	GP330313
SCK_ABB_M1175_2CSM210000R0721	GP276600
INT_ABB_DS201B16A30_2CSR255180R1165	GP574309
AIR INLET SCHNEIDER NSYCAG223LPF	GP194489
CAX_ABB_MCBH-01_1SFA611605R1110	GP019516
RESISTENCIA STEGO CS130 1200W 13060.0-01	GP055753
EMERG STOP SIGH CA61026(1SFA619930R1026)	GP070587
HOLDER CONTACT BLOCK(1SFA611605R1101)	GP110565
PUSH BUTTON MP1-10G (1SFA611100R1002)	GP110566
FAN+FILTER SCHNEIDER NSYCVF165M230PF	GP286395
UPS_ALP_PINNACLE 3KVA PLUS W/O BATTERY	GP310527
COPPER BRAID MBJ16-300-8_556660	GP508877
INT_ABB_MPET4-10R_1SFA611523R1001	GP554121
TEMP.sensor Stego ZR011 01172.0-00	GP011664
CIRCUIT BREAKER ABB F204 A-25/0,03A	GP069343
CIRCUIT BREAK S201B6NA(2CDS251103R0065)	GP070590
SPM_HIM_EX20/6	GP075105
COVER_ABB_PS2-48-16H_2CDL200001R0001	GP088472
INT_ABB_F202 AC-25/0,03	GP100211
CIRCUIT BREAK S203 D6NA(2CDS253103R0061)	GP110562
SCREW ISO 7380 M4 L12 8.8 ZN	GP127813
INT_ABB_S201-C16NA_2CDS251103R0164	GP243466
INT_ABB_S201 C6 NA_2CDS251103R0064	GP243612
INT_ABB_S201-C20NA_2CDS251103R0204	GP289796
INT_ABB_S201-C4NA_2CDS251103R0044	GP290441
INT_ABB_OT25F4N2_1SCA104886R1001	GP307448
BUS_ABB_PS-END 1_2CDL200001R0002	GP249004
INT_ABB_S201-C25NA_2CDS251103R0254	GP361965
INT_ABB_F202 A-25/0.03_2CSF202101R1250	GP502897
SPD_RAY_PROTEC T2 300-4+0-R_59.0104	GP509800
SPD_RAY_PROTEC T2-300-2+0-R_59.0084	GP509803
HIG_5A_STG_MFR012_01220.0-00	GP007878
CIRCUIT BREAKER D-4A 2P 230Vac	INT0427





IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

Certificate. No.

IECRE.WE.TC.20.0086-R16

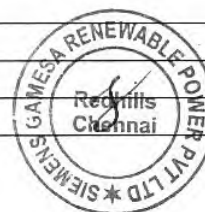
TYPE CERTIFICATE

Wind Turbine

CIRCUIT BREAKER C-2A 1P NA 230V	INT0430
THERMOSTAT STEGO NO 01143.0.00	P393467
CORROSION INHIBITOR 230L + BLOCK	VAR0179
HAR_HAN B-BASE PANEL_09 30 010 0301	GP402921
HAR_HAN K4/4-M 6-16MM2_09 38 008 2601	GP416515

Converter GP443724 (GP451967) / GP443721 BoM

Name	Number
AMB_STEGO_CSL028 230V 400W_02810.0-01	GP135428
FIN_ABB_LS32P51B11_1SBV010351R1211	GP252242
AMB_LOT_PFF12U	GP319301
AMB_STEGO_CSL028 230V 400W_02810.0-01	GP135428
AMB_LOT_PFF12U	GP319301
BOLT ISO4017 M6X30 8.8 ZNNI C4	GP270247
FLAT WASHER DIN 125 M4 200HV ZN	TOR0016
TER_PFA_FLZ 510_17103000003	GP243456
HIG_5A_STG_MFR012_01220.0-00	GP007878
AUX CONT_ABB_S2C-H6R_2CDS200912R0001	GP011149
INT_ABB_S201 C6 NA_2CDS251103R0064	GP243612
INT_ABB_S203-D10NA_2CDS253103R0101	GP323089
INT_ABB_S203-C6NA_2CDS253103R0064	GP331380
KRM_ABB_AF09-30-10-13_1SBL137001R1310	GP206196
ABB_AF09Z-30-10-21_1SBL 136 001 R2110	GP207359
ABB_AF09Z-40-00-21_1SBL 136 201 R2100	GP221920
CAU_ABB_CAL4-11_1SBN010120R1011	GP243608
CONTACTOR AF16-40-00-13 4P	GP263480
AUX CONT_ABB_S2C-H6R_2CDS200912R0001	GP011149
ABB_HKF1-11_1SAM 201 901 R1001	GP207358
ABB_S1-M1-25_1SAM 201 907 R1101	GP207514
INT_ABB_S201 C10 NA_2CDS251103R0104	GP243609
MS132 0,16A 1SAM350000R1001	GP266089
CCU S4	GP164975
ALLEN SCREW DIN 912 M5 L16 8.8 ZN	TOR0124
ALLEN SCREW DIN 912 M5 L16 8.8 ZN	TOR0124
SPD_RAY_PROTEC T2-300-2+0-R_59.0084	GP509803
SCREW DIN912 (ISO 4762) M6 L20 8.8 ZN	GP127833
WASHER DIN125(ISO7089) M5 200HV ZN	GP241739





IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

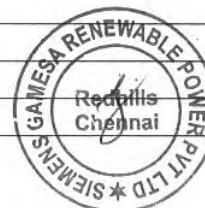
Certificate. No.

IECRE.WE.TC.20.0086-R16

TYPE CERTIFICATE

Wind Turbine

CROWBAR PCB DRIVER G114 2.5MW	GP248186
PCB CROWBAR RESISTOR G114 2.5MW	GP248187
SMC_NFI_TZ630N28KOF	GP248188
WASHER DIN125(ISO7089) M6 200HV ZN	GP284539
SCREW DIN912(ISO4762) M6 L30 8.8ZN	GP284585
DAC CONV 2,625MW CROWBAR HEATSINK	GP292522
IND_CIR_DI/DT CROWBAR_10UH10KA 100MS AIR	GP311573
SMC_NFI_DD540N26K	GP248189
FLAT WASHER DIN125 M10 200HV ZN	TOR0025
TUBULAR PLASTIC 8MM	VAR0218
TUBULAR PLASTIC 15MM	VAR0219
TUBULAR PLASTIC 20MM	VAR0220
CORROSION INHIBITOR 230L + BLOCK	VAR0179
FIN_ABB_LS32P51B11_1SBV010351R1211	GP252242
FIL_LOT_PFF20U_WITH HOLES	GP390305
FLAT WASHER DIN 125 M4 200HV ZN	TOR0016
FIL_LOT_PFF20U_WITH HOLES	GP390305
FLAT WASHER DIN 125 M4 200HV ZN	TOR0016
FIL_LOT_PFF20U_WITH HOLES	GP390305
FLAT WASHER DIN 125 M4 200HV ZN	TOR0016
FLAT WASHER DIN 125 M4 200HV ZN	TOR0016
IND_CIR_ZC2015-09	GP322891
MD ANTI VIBRATION MOUNT AMC 135210	GP341723
IND_CIR_ZC2015-08	GP322892
MD ANTI VIBRATION MOUNT AMC 135210	GP341723
RES_KLK_RESISTOR 0,42 OHM 0,6MJ_AL-CR	GP535249
AMB_STEGO_CSL028 230V 400W_02810.0-01	GP135428
FIN_ABB_LS32P51B11_1SBV010351R1211	GP252242
PCB FILTRO DV\DT CC DAC CONVERTER	GP311567
AMB_LOT_PFF12U	GP319301
AMB_STEGO_CSL028 230V 400W_02810.0-01	GP135428
FIL_LOT_PFF15U_WITH HOLES	GP390306
FLAT WASHER DIN 125 M4 200HV ZN	TOR0016
WASHER DIN125(ISO7089) M6 200HV ZN	GP284539
FIN_ABB_LS32P51L20_1SBV010351R1320	GP406586
FLAT WASHER DIN 125 M6 ZN	P650228
FLAT WASHER DIN 125 M4 200HV ZN	TOR0016
HEX HEAD SCREW DIN 933 M4 L25 8.8 ZN	GP144398





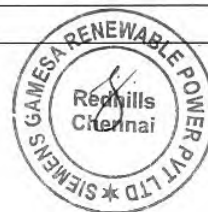
Certificate. No.

IECRE.WE.TC.20.0086-R16

IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

TYPE CERTIFICATE**Wind Turbine**

HEX HEAD SCREW DIN 933 M4 L25 8.8 ZN	GP144398
SKIIP 3614 GB17E4-6DU+ 20603257	GP247999
DIS_ERI_ISO TP 20 M6_548420	GP252877
RES_VISHAY_LPS0800H1500KB	GP268629
FLAT WASHER DIN 125 M6 ZN	P650228
FLAT WASHER DIN 125 M4 200HV ZN	TOR0016
RES_VIS_LPS0800L1502JB	GP298548
FLAT WASHER DIN 125 M6 ZN	P650228
FLAT WASHER DIN 125 M4 200HV ZN	TOR0016
FLAT WASHER DIN125 M10 200HV ZN	TOR0025
ABB_HKF1-11_1SAM 201 901 R1001	GP207358
ABB_AF09Z-30-10-21_1SBL 136 001 R2110	GP207359
INT_ABB_MS132-1,6_1SAM350000R1006	GP219353
AIS_ABB_S1-M3-25_1SAM 201 907 R1103	GP253731
MS132 0,16A 1SAM350000R1001	GP266089
SPD_RAY_PROTEC T2-750 (3+0) R_59.0100	GP509804
RES_SIR_150W_47R_8611424728	GP270104
AIS_SIR_ID30	GP270105
FLAT WASHER DIN 125 M4 200HV ZN	TOR0016
AMB_STEGO_CSL028 230V 400W_02810.0-01	GP135428
WASHER DIN125(ISO7089) M5 200HV ZN	GP241739
HIG_5A_STG_MFR012_01220.0-00	GP007878
COOLING INLET COLECTOR G114	GP252234
ABB_LT750-AL_1SFN 126 103 R1000	GP219358
BOLT ISO4017 M6X30 8.8 ZNNI C4	GP270247
AIS_ERI_ISO TP 25M6_548430	GP270272
WASHER DIN125(ISO7089) M5 200HV ZN	GP241739
AUX_ABB_C 3 Q 1SY 24VDC_1SDA054915R1	GP019452
WASHER DIN125(ISO7089) M5 200HV ZN	GP241739
ALUMINIUM HEATSINK 300X40	GP419845
FLAT WASHER DIN 125 M4 200HV ZN	TOR0016
WASHER DIN125(ISO7089) M5 200HV ZN	GP241739
ALUMINIUM HEATSINK 300X40	GP419845
IGBT_FUJI_2MBI1800XXF170-50	GP450561
DRIVER_TAMURA_MBI1800_2DUD51008FFP1	GP553936
FLAT WASHER DIN 125 M4 200HV ZN	TOR0016





Certificate. No.

IECRE.WE.TC.20.0086-R16

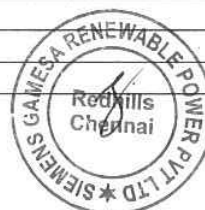
IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

TYPE CERTIFICATE

Wind Turbine

Top cabinet GP588993 / GP601173 BoM

Name	Number
AUX CONT_ABB_S2C-H6R_2CDS200912R0001	GP011149
ABB_HKF1-11_1SAM 201 901 R1001	GP207358
INT_ABB_MO132-10_1SAM360000R1010	GP389963
CIRCUIT BREAKER C-2A 1P NA 230V	INT0430
ACC_KYL_OPAL5-1M4T-ST05-LV-LV	GP330313
HOUSING HAN 16B	CNT0225
HAN Q5/0 S3A FEMALE CRMP-TERMINAL 5PIN+E	GP039681
HAN K4/0 S16B FEMALE INSERT 4+0POLES+E	GP042437
HAN 3A - AK COVER 09 20 003 5425	GP086765
HAR_HAN 3A BASE PANEL_09 20 003 0304	GP284330
HAR_HAN 10B-BASE PANEL_09 30 010 1301	GP345046
HAR_HAN K4/4-F 10-22MM2_09 38 008 2702	GP351633
INT_ABB_MS132-2,5_1SAM350000R1007	GP172176
INT_ABB_MS132-4_1SAM350000R1008	GP207357
ABB_HKF1-11_1SAM 201 901 R1001	GP207358
ABB_PS1-5-0-65_1SAM 201 906 R1105	GP207512
ABB_S1-M1-25_1SAM 201 907 R1101	GP207514
ABB_AF09Z-30-10-21_1SBL136005R2110	GP543159
TER_ABB_KIT EF XT1 4PCS_1SDA066866R1	GP556089
RES_STE_CSL028 400W 230V RAIL_02810.0-00	AMB0061
CAX_ABB_MCBH-01_1SFA611605R1110	GP019516
EMERG STOP SIGH CA61026(1SFA619930R1026)	GP070587
HOLDER CONTACT BLOCK(1SFA611605R1101)	GP110565
PUSH BUTTON MP1-10G (1SFA611100R1002)	GP110566
CAX_ABB_MCB-10_1SFA611610R1001	GP272114
AMB_LOT_PFF13U	GP284143
AMB_LOT_PFF13U	GP284143
COPPER BRAID_ERI_MBJ 16-150-8_556630	GP453611
COPPER BRAID_ERI_MBJ16-500-8_556940	GP470555
COPPER BRAID_MBJ16-300-8_556660	GP508877
HIG_5A_STG_MFR012_01220.0-00	GP007878
AUX CONT_ABB_S2C-H6R_2CDS200912R0001	GP011149
CIRCUIT BREAKER ABB F204 A-25/0,03A	GP069343
COVER ABB_PS2-48-16H_2CDL200001R0001	GP088472
INT_ABB_F202 AC-25/0,03	GP100211
CBR_S203 B10NA_ABB_2CDS253103R0105	GP110580
CAUX_ABB_CA4-10_1SBN010110R1010	GP172167
MO132-16 MOTOR C.BREAKER 12,5-16A 690V	GP172178
ABB_HKF1-11_1SAM 201 901 R1001	GP207358
ABB_S1-M1-25_1SAM 201 907 R1101	GP207514
TER_PFA_FLZ 510_17103000003	GP243456





Certificate. No.

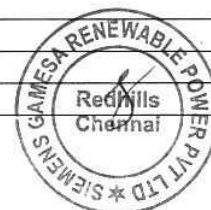
IECRE.WE.TC.20.0086-R16

IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

TYPE CERTIFICATE

Wind Turbine

INT ABB S203-C16NA 2CDS253103R0164	GP243465
CAU ABB CAL4-11 1SBN010120R1011	GP243608
INT ABB S201 C10 NA 2CDS251103R0104	GP243609
INT ABB S201 C6 NA 2CDS251103R0064	GP243612
BUS ABB PS1-3-0-65 1SAM201906R1103	GP247608
BUS ABB PS-END 1 2CDL200001R0002	GP249004
INT ABB S203-C25NA 2CDS253103R0254	GP289799
KRM ABB AF96-30-00-11 1SBL407001R1100	GP289834
INT ABB AF52-30-00-13 1SBL367001R1300	GP305361
RA4 INTERFACE RELAY	GP335319
REL ABB EF19-18.9 1SAX121001R1105	GP345064
INT ABB MO165-65 1SAM461000R1017	GP346340
REL ABB DB19EF 1SAX101910R1001	GP351630
INT ABB MS165-54 1SAM451000R1016	GP387818
SEN CIR TCH6.2-200-5A M70444	GP345051
SPD RAY PROTEC T2 300-4+0-R 59.0104	GP509800
SPD RAY PROTEC T2-300-2+0-R 59.0084	GP509803
INT ABB MS132-10 1SAM350010R1010	GP543107
INT ABB MS132-1,6 1SAM350010R1006	GP543108
INT ABB MS132-1.0 1SAM350010R1005	GP543109
AUX ABB 1SAM201901R1201	GP543112
ABB AF16-30-10-13 1SBL177005R1310	GP543113
ABB MS132-0.4 1SAM350010R1003	GP543132
INT ABB MS132-2,5 1SAM350010R1007	GP543133
ABB AF09Z-30-10-21 1SBL136005R2110	GP543159
INT MS132-6,3 ABB 1SAM350010R1009	GP543160
KRM ABB AF09-30-10-13 1SBL137005R1310	GP543161
CAX ABB CA4-01K 1SBN010160R1001	GP554066
CIRCUIT BREAKER D-4A 2P 230Vac	INT0427
CIRCUIT BREAKER C-2A 1P NA 230V	INT0430
INT ABB S201-D20NA 2CDS251103R0201	GP269144
SPD RAY PROTEC T2-300-2+0-R 59.0084	GP509803
INT ABB S201NA D6 2CDS251103R0061	INT0513
INT ABB MPET4-10R 1SFA611523R1001	GP554121
HIG 5A STG MFR012 01220.0-00	GP007878
AUX CONT ABB S2C-H6R 2CDS200912R0001	GP011149
INT ABB OT16F4N2 1SCA104829R1001	GP087441
COVER ABB PS2-48-16H 2CDL200001R0001	GP088472
INT ABB F202 AC-25/0,03	GP100211
CIRCUIT BREAK S201 D10NA(2CDS251103R0101	GP110573
ABB AF09-40-00-13 1SBL 137 201 R1300	GP220747
TER PFA FLZ 510 17103000003	GP243456
INT ABB S201-C16NA 2CDS251103R0164	GP243466





Certificate. No.

IECRE.WE.TC.20.0086-R16

IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

TYPE CERTIFICATE**Wind Turbine**

INT_ABB_S201 C6 NA 2CDS251103R0064	GP243612
SCK_ABB_M1175_2CSM210000R0721	GP276600
ROTOR OVERSPEED GUARD ROG-G132	GP347593
TRAFO_TORITRANS TMN3737 230/24VAC 400VA	GP334063
REL_ABB_CM-MSS.11P_1SVR740720R1400	GP467217
SPD_RAY_PROTEC_DMDR 20-24V 510.783	GP509807
SPD_RAY_RAYDAT SBH-3-5 7082.86	GP509808
KRM_ABB_AF09-30-10-13_1SBL137005R1310	GP543161
CIRCUIT BREAKER D-4A 2P 230Vac	INT0427
INT_ABB_S201NA D6 2CDS251103R0061	INT0513
CORROSION INHIBITOR 230L + BLOCK	VAR0179

Tower base cabinet GP568162 / GP564579 / GP565243

Name	Number
ACC_KYL_OPAL8-2S6T-SC40-LV-LV	GP330314
RESISTANCE 9785U 500Ohm WI 5790405550	GP088905
HAR_HAN B-BASE PANEL_09 30 010 0301	GP402921
HAR_HAN K4/4-M 6-16MM2_09 38 008 2601	GP416515
ACC_KYL_OPAL5-1M4T-ST05-LV-LV	GP330313
AIR INLET SCHNEIDER NSYCAG223LPF	GP194489
CAX_ABB_MCBH-01_1SFA611605R1110	GP019516
RESISTENCIA STEGO CS130 1200W 13060.0-01	GP055753
EMERG STOP SIGH CA61026(1SFA619930R1026)	GP070587
HOLDER CONTACT BLOCK(1SFA611605R1101)	GP110565
PUSH BUTTON MP1-10G (1SFA611100R1002)	GP110566
FAN+FILTER SCHNEIDER NSYCVF165M230PF	GP286395
UPS_ALP_PINNACLE 3KVA PLUS W/O BATTERY	GP310527
COPPER BRAID MBJ16-300-8_556660	GP508877
TEMP.sensor Stego ZR011 01172.0-00	GP011664
CIRCUIT BREAKER ABB F204 A-25/0,03A	GP069343
CIRCUIT BREAK S201B6NA(2CDS251103R0065)	GP070590
SPM_HIM_EX20/6	GP075105
COVER_ABB_PS2-48-16H_2CDL200001R0001	GP088472
INT_ABB_F202 AC-25/0,03	GP100211
CIRCUIT BREAK S203 D6NA(2CDS253103R0061)	GP110562
SCREW ISO 7380 M4 L12 8.8 ZN	GP127813
INT_ABB_S201-C16NA_2CDS251103R0164	GP243466
INT_ABB_S201 C6 NA 2CDS251103R0064	GP243612
INT_ABB_S201-C20NA_2CDS251103R0204	GP289796
INT_ABB_S201-C4NA_2CDS251103R0044	GP290441
INT_ABB_S203-K16NA_2CDS253103R0467	GP307251





Certificate. No.

IECRE.WE.TC.20.0086-R16

IECRE - IEC System for Certification
to Standards Relating to Equipment
for Use in Renewable Energy
Applications

TYPE CERTIFICATE

Wind Turbine

INT_ABB_OT25F4N2_1SCA104886R1001	GP307448
BUS_ABB_PS-END 1_2CDL200001R0002	GP249004
INT_ABB_S201-C25NA_2CDS251103R0254	GP361965
INT_ABB_F202 A-25/0.03_2CSF202101R1250	GP502897
SPD_RAY_PROTEC T2 300-4+0-R_59.0104	GP509800
SPD_RAY_PROTEC T2-300-2+0-R_59.0084	GP509803
HIG_5A_STG_MFR012_01220.0-00	GP007878
CIRCUIT BREAKER D-4A 2P 230Vac	INT0427
CIRCUIT BREAKER C-2A 1P NA 230V	INT0430
THERMOSTAT STEGO NO 01143.0.00	P393467
INT_ABB_MPET4-10R_1SFA611523R1001	GP554121
CORROSION INHIBITOR 230L + BLOCK	VAR0179
SCK_ABB_M1175_2CSM210000R0721	GP276600
INT_ABB_DS201B16A30_2CSR255180R1165	GP574309

