


ABB Oy MV Induction Machines	Classifying code or document type				
	PERFORMANCE DATA OF GENERATOR				
Department/Author PIC/Kurucz	Date of issue 2005-01-18	Lang. En	Rev. date 2005-03-11	Our ref. 2531HE298	
Customer ref. Bonus 3,6 MW VSD	Saving Ident			Rev./Changed by E/zoku	Pages 1/9

Driven Generator: WTG

Generator type code	AMB 560L4A
Generator type	Squirrel cage generator
Mounting designation	IM 1001
Protected by enclosure	IP 54
Method of cooling	IC 617
Insulation	Class F
Standards	IEC
Ambient temperature, max.	50 °C
Cooling air in max	40 °C
Cooling air flow	4.3 m ³ /s
Altitude, max.	1000 m.a.s.l.
Converter supply	PWM
Duty type	S1
Temp. rise	Class B
Connection of stator winding	Delta
Rated output	0 – 3800 - 3800 kW
Voltage	241 – 750 - 750 V
Frequency	16.5 – 51.4 - 56.4 Hz
Speed	500 – 1550 - 1700 rpm
Current	0 – 3250 - 3230 A
Power Factor	0 – 0.90 - 0.90
Relat. maximum torque	0 - 2.0 - 1.8
Max. operational speed	1800 rpm, 1 hour
Runaway speed	2200 rpm, 2 min
Direction of rotation	Uni-directional
Weight of rotor	2840 kg
Total weight of generator	10000 kg
Inertia rotor / load	149 kgm ² / _ kgm ²
Bearings	Antifriction
Warm-up time constant	35 min
Cool-down time constant	225 min

This performance data is final and the generator will be manufactured accordingly. All generator data is subject to tolerances in accordance with IEC.

NOTE:

- cable type 3-phase screened cross section 8x3x150 mm² length 3.5 m
- efficiencies without external fan motor
- the PWM efficiencies only for information
- the field weakening point 750 V 51.4 Hz

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RATINGS

Generator type code	AMB 560L4A BAFH
Generator type	3-ph. Squirrel cage generator
Mounting designation	IM 1001
Protected by enclosure	IP 54
Method of cooling	IC 617
Insulation	Class F
Standards	IEC
Ambient temperature, max.	50 °C
Cooling air in max	40 °C
Cooling air flow	4.3 m ³ /s
Maximum speed	1800 rpm 1 h
Runaway speed	2200 rpm 2 min
Weight	10000 kg

Nominal generator output	
Converter supply	PWM
Duty type	S1
Temp. rise	Class B
Connection of stator winding	Delta
Rated output	0 – 3800 - 3800 kW
Voltage	241 – 750 - 750 V
Frequency	16.5 – 51.4 - 56.4 Hz
Speed	500 – 1550 - 1700 rpm
Current	0 – 3250 - 3230 A
Power Factor	0 – 0.90 - 0.90

Nominal turbine output	
Converter supply	PWM
Duty type	S1
Temp. rise	Class B
Connection of stator winding	Delta
Rated output	0 – 3600 - 3600 kW
Speed	500 – 1550 - 1700 rpm