


ABB Oy MV Induction Machines	Classifying code or document type				
	PERFORMANCE DATA OF GENERATOR				
Department/Author PIC/Kurucz	Date of issue 2011-09-20	Lang. En	Rev. date	Our ref.	
Customer ref. Vestas 1.75/2.0 MW 50 Hz V3	Saving Ident 8017810		Rev./Changed by A/zk	Pages 1/6	

Driven Generator: WTG

Generator type code	AMK 500L4A BATYH			
Generator type	Slip ring generator			
Mounting designation	IM 1001			
Protected by enclosure	IP 54			
Method of cooling	IC 666			
Insulation	Class F			
Standards	IEC			
Ambient temperature, max.	40 °C			
Altitude, max.	1000 m.a.s.l.			
Shortcircuited rotor				
Duty type	S1			
Temp. rise	Class F			
Connection of stator winding	Delta			
Rated output	1800 kW			
Voltage	690 V			
Frequency	50 Hz			
Speed	1514 rpm			
Overspeed	2450 rpm 2 min			
Current	1710 A			
Rotor Voltage	1809 V			
Rotor Current	586 A			
Connection of rotor winding	Star			
Rotor resistance/phase	0.0129 Ω			
Relat. maximum torque	-2.4			
No load current	521 A			
Rated torque	-11702 Nm			
Load characteristics	Load %	Current A	Efficiency %	Power Factor
	100	1709	97	0.88
	75	1320	97.2	0.86
	50	956	97	0.79
Direction of rotation	Uni-directional			
Weight of rotor	1890 kg			
Total weight of generator	5525 kg			
Inertia rotor / load	69.9 kgm ² / ___ kgm ²			
Bearings	Antifriction			

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

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Converter fed rotor	
Duty type	S1
Temp. rise	Class F
Ambient	40 C
Connection of stator winding	Delta
Rated output	2040 kW
Voltage	690 V
Frequency	50 Hz
Speed	1680 rpm
Current	1535 A
P.F	1.0
Rotor Voltage	221 V
Rotor Current	617 A
Connection of rotor winding	Star
Rotor resistance/phase	0.0129 Ω

Converter fed rotor	
Duty type	S1
Temp. rise	Class F
Ambient	50 C
Connection of stator winding	Delta
Rated output	1790 kW
Voltage	690 V
Frequency	50 Hz
Speed	1680 rpm
Current	1346 A
P.F	1.0
Rotor Voltage	222 V
Rotor Current	549 A
Connection of rotor winding	Star
Rotor resistance/phase	0.0129 Ω