


ABB Industry Oy Induction Machines	Classifying code or document type				
	PERFORMANCE DATA OF GENERATOR				
Department/Author PIE/ M. Ikonen	Date of issue 30.11.00	Lang. En	Print date 21.09.11	Our ref. 5674HD300-302	
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Driven machine: Wind turbine generator

Machine type code	AMH 500L4/6 BAH						
Machine type	Asynchronous generator						
Mounting designation	IM 1001						
Protected by enclosure	IP 55						
Insulation / Temp. rise	Class F / B (temp.rise < 80K in respect to coolant)						
Method of cooling	IC 7A1W7 (liquid cooled frame *)						
Standards	IEC						
Nominal temp. of the cooling liquid	35 °C						
Min. flow of the liquid	3 m ³ /h						
Pressure drop liquid circuit	Approx. 0,7 bar						
Ambient temperature	50 °C						
Altitude, max.	1000 m.a.s.l.						
Duty type	S1			S1			
Rated output	1300 kW			250 kW			
Voltage	690 V			690 V			
Frequency	60 Hz			60 Hz			
Current	1212 A			244 A			
Speed	1812 rpm			1208 rpm			
Connection of stator winding	Delta			Star			
Relat. maximum torque	2.0			2.9			
No load current	267 A			85 A			
No load reactive power	319 kVAr			101 kVAr			
Load characteristics	Load %	Current A	Efficiency %	Power factor	Current A	Efficiency %	Power factor
	100	1212	97.4	0.90	244	95.1	0.86
	75	916	97.5	0.89	191	95.4	0.83
	50	636	97.4	0.85	142	95.3	0.74
	25	390	96.0	0.69	101	93.1	0.50
Direction of rotation	Uni-directional						
Sound pressure level: (no load)	81 dB(A), tolerance + 3 dB(A), 1 m						
Rotor inertia approx.	43 kgm ²						
Generator weight	5720 kg						

*Non-corrosive liquid must be used to cool the steel frame.

Efficiencies do not include the power consumed by the liquid circulation pumps.

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

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