



Type Test Report					Date of issue: 2011.12.28						
Customer:					Serial No.: 3GE100210S4149						
					Type: M3AA 112MB 6					Product Code: 3GAA113312-DE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					690	Y 50	2,2	955	3,00	0,72	S1
Insul.cl.F					400	D 50	2,2	955	5,30	0,72	S1
IP55					460	D 60	2,2	1160	5,00	0,65	S1
50Hz : IE2 - 81,9(100%) - 82,3(75%) - 79,8(50%)											
60Hz : IE1 - 84,4(100%)											
Resistance					Insulation resistance at 24,4 °C					Overload	
Line Ambient: 17,8 °C					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁ 3,86000 Ω										Torque 160 % 15s	
U ₁ - W ₁ 3,85800 Ω										Speed 120 % 120s	
V ₁ - W ₁ 3,86100 Ω											
					High-voltage test winding 2400 V					60 s	
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos φ	η [%]		
No load test		400 D	50	4,0	0,23		1000	0,08			
Locked rotor test		127,9 D	50	7,5	0,88		0	0,53			
Thermal test (100% load)	22,0	400 D	50	5,6	2,67	2,20	956	0,68	82,40		
Partial load points:											
~75% load	16,3	400 D	50	4,8	2,00	1,65	968	0,59	82,30		
~50% load	10,7	400 D	50	4,2	1,38	1,10	979	0,47	79,70		
~25% load	5,3	400 D	50	3,8	0,79	0,55	989	0,30	70,00		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					48,1	3			1 Resistance		
Frame :					23,3	3			2 Thermometer		
Bearing D-end :					31,3	3			3 Thermocouples		
Ambient Temperature :					25	3					
Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1.											
PLL determined from residual loss.											
On behalf of customer											
On behalf of manufacturer			Date of test			10.2.2010					
Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain								Telephone		+34 93 728 85 00	
								Telefax		+34 93 728 85 33	

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