



Type Test Report				Date of issue: 2011.12.28							
Customer:				Serial No.: 3GE110111T5504							
				Type: M3AA 112MB 4 HO Product Code: 3GAA112102-DE							
Customer ref.:											
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				690	Y 50	5,5	1425	7,10	0,75	S1	
Insul.cl.F				400	D 50	5,5	1425	12,40	0,75	S1	
IP55				460	D 60	5,5	1735	10,40	0,75	S1	
Eff class IE1				50Hz : IE1 - 85,1(100%) - 86,9(75%) - 86,3(50%) 60Hz : IE1 - 88,1(100%)							
Resistance				Insulation resistance at 23,9 °C				Overload			
Line				R > 2000 Mohm 1000 V				Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U ₁ - V ₁				Ambient: 16,2 °C							
U ₁ - W ₁				1,73200 Ω							
V ₁ - W ₁				1,72700 Ω							
				1,72900 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	7,2	0,40		1500	0,08			
Locked rotor test		85,6 D	50	11,6	1,02		0	0,59			
Thermal test (100% load)	36,9	400 D	50	11,7	6,57	5,50	1424	0,81	83,70		
Partial load points:											
~75% load	27,3	400 D	50	9,6	4,88	4,13	1445	0,73	84,70		
~50% load	17,9	400 D	50	8,0	3,29	2,75	1465	0,59	83,70		
~25% load	8,9	400 D	50	7,0	1,81	1,38	1482	0,37	76,30		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				84,5	3			1 Resistance			
Frame :				41,3	3			2 Thermometer			
Bearing D-end :				59,4	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			10.1.2011					
Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain							Telephone		+34 93 728 85 00		
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