



Type Test Report				Date of issue: 2011.12.28							
Customer:				Serial No.: 3GE110813T9202							
				Type: M3AA 132SBB 2 HO				Product Code: 3GAA131004-DE			
Customer ref.:											
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				690	Y 50	9,2	2885	9,50	0,91	S1	
Insul.cl.F				400	D 50	9,2	2885	16,50	0,91	S1	
IP55				460	D 60	9,2	3500	14,10	0,91	S1	
Eff class IE1				50Hz : IE1 - 88,1(100%) - 90,2(75%) - 90,7(50%)							
				60Hz : IE1 - 89,4(100%)							
Resistance				Insulation resistance at 23,5 °C				Overload			
Line				R > 2000 Mohm 1000 V				Current 150 % 120s			
U ₁ - V ₁				Ambient: 16,8 °C				Torque 160 % 15s			
U ₁ - W ₁				0,91400 Ω				Speed 120 % 120s			
V ₁ - W ₁				0,91300 Ω							
				0,91200 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	4,4	0,36		3000	0,12			
Locked rotor test		73,1 D	50	16,4	0,97		0	0,47			
Thermal test (100% load)	30,5	400 D	50	16,6	10,50	9,20	2883	0,91	87,60		
Partial load points:											
~75% load	22,6	400 D	50	12,6	7,78	6,90	2912	0,89	88,70		
~50% load	14,9	400 D	50	9,0	5,19	4,60	2944	0,83	88,60		
~25% load	7,4	400 D	50	5,9	2,72	2,30	2973	0,66	84,50		
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :					72,4	3		1 Resistance			
Frame :					18,2	3		2 Thermometer			
Bearing D-end :					37,4	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			10.3.2011					
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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