



Type Test Report				Date of issue: 2011.12.28							
Customer:				Serial No.: 3GE094536T0001							
				Type: M3AA 132SME 2 HO				Product Code: 3GAA131317-DE			
Customer ref.:											
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				690	Y 50	18,5	2895	18,90	0,89	S1	
Insul.cl.F				400	D 50	18,5	2895	32,90	0,89	S1	
IP55				460	D 60	18,5	3510	27,80	0,91	S1	
Eff class IE2				50Hz : IE2 - 91,1(100%) - 92,2(75%) - 92,4(50%) 60Hz : IE2 - 91,6(100%)							
Resistance Line				Ambient: 10,4 °C				Insulation resistance at 25,7 °C		Overload	
U ₁ - V ₁				0,28420 Ω				R > 2000 Mohm 1000 V		Current 150 % 120s	
U ₁ - W ₁				0,28130 Ω						Torque 160 % 15s	
V ₁ - W ₁				0,28150 Ω						Speed 120 % 120s	
				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	7,9	0,46		3000	0,08			
Locked rotor test		63 D	50	31,6	1,61		0	0,47			
Thermal test (100% load)	61,0	400 D	50	32,3	20,40	18,50	2896	0,91	90,70		
Partial load points:											
~75% load	45,3	400 D	50	24,5	15,12	13,88	2925	0,89	91,80		
~50% load	29,9	400 D	50	17,4	10,05	9,25	2952	0,83	92,00		
~25% load	14,9	400 D	50	11,3	5,17	4,63	2977	0,66	89,50		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				77,9	3			1 Resistance			
Frame :				26,0	3			2 Thermometer			
Bearing D-end :				50,5	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			14.1.2010					
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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