



Type Test Report					Date of issue: 2011.12.28						
Customer:					Serial No.: 3GE074513T0329						
					Type: M3AA 132SMC 2 HO					Product Code: 3GAA131316-_SE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					230	D 50	15,0	2905	49,30	0,84	S1
Insul.cl.F					400	Y 50	15,0	2905	28,50	0,84	S1
IP55					460	Y 60	15,0	3515	23,30	0,89	S1
Eff class IE2					50Hz : IE2 - 90,4(100%) - 90,7(75%) - 89,8(50%)						
					60Hz : IE2 - 90,7(100%)						
Resistance					Insulation resistance at 21 °C					Overload	
Line					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁					Ambient: 20,0 °C					Torque 160 % 15s	
U ₁ - W ₁					0,36000 Ω					Speed 120 % 120s	
V ₁ - W ₁					0,36100 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 Y	50	9,2	0,51		3000	0,08			
Locked rotor test		59,9 Y	50	27,0	1,16		0	0,41			
Thermal test (100% load)	49,4	400 Y	50	27,2	16,63	15,00	2897	0,88	90,20		
Partial load points:											
~75% load	36,7	400 Y	50	21,2	12,39	11,25	2925	0,84	90,80		
~50% load	24,3	400 Y	50	15,7	8,30	7,50	2952	0,76	90,40		
~25% load	12,0	400 Y	50	11,2	4,35	3,75	2979	0,56	86,30		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					78,0	3			1 Resistance		
Frame :					27,0	3			2 Thermometer		
Bearing D-end :					40,0	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			20.11.2007					
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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