



Type Test Report					Date of issue: 2011.12.28						
Customer:					Serial No.: 3GE074509T2202						
					Type: M3AA 90LB 2					Product Code: 3GAA091313-_SE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					230	D 50	2,2	2875	7,60	0,85	S1
Insul.cl.F					400	Y 50	2,2	2875	4,40	0,85	S1
IP55					460	Y 60	2,2	3480	3,70	0,85	S1
Eff class IE2					50Hz : IE2 - 84,6(100%) - 85,7(75%) - 85,5(50%)						
					60Hz : IE2 - 86,0(100%)						
Resistance					Insulation resistance at 23 °C					Overload	
Line					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁					Ambient: 22,0 °C					Torque 160 % 15s	
U ₁ - W ₁					4,36200 Ω					Speed 120 % 120s	
V ₁ - W ₁					4,35900 Ω						
					4,36100 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	1,86	0,14		3000	0,11			
Locked rotor test		71,3 Y	50	4,5	0,29		0	0,53			
Thermal test (100% load)	7,3	400 Y	50	4,3	2,63	2,20	2870	0,88	83,80		
Partial load points:											
~75% load	5,4	400 Y	50	3,3	1,94	1,65	2905	0,84	85,00		
~50% load	3,6	400 Y	50	2,4	1,30	1,10	2935	0,76	84,80		
~25% load	1,8	400 Y	50	1,69	0,68	0,55	2964	0,58	80,40		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					60,1	3			1 Resistance		
Frame :					19,0	3			2 Thermometer		
Bearing D-end :					38,0	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			8.11.2007					
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		

Computer print-out valid without signature.