



Type Test Report				Date of issue: 2011.12.28							
Customer:				Serial No.: 3GE074509T2202							
				Type: M3AA 90LB 2 Product Code: 3GAA091313-_DE							
Customer ref.:											
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				690	Y 50	2,2	2875	2,50	0,85	S1	
Insul.cl.F				400	D 50	2,2	2875	4,40	0,85	S1	
IP55				460	D 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 Line				Ambient: 22,0 °C				Insulation resistance at 23 °C		Overload	
U ₁ - V ₁				4,36200 Ω				R > 2000 Mohm 1000 V		Current 150 % 120s	
U ₁ - W ₁				4,35900 Ω						Torque 160 % 15s	
V ₁ - W ₁				4,36100 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	1,86	0,14		3000	0,11			
Locked rotor test		71,3 D	50	4,5	0,29		0	0,53			
Thermal test (100% load)	7,3	400 D	50	4,3	2,63	2,20	2870	0,88	83,80		
Partial load points:											
~75% load	5,4	400 D	50	3,3	1,94	1,65	2905	0,84	85,00		
~50% load	3,6	400 D	50	2,4	1,30	1,10	2935	0,76	84,80		
~25% load	1,8	400 D	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		

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