



Type Test Report				Date of issue: 2011-10-05							
Customer:				Serial No.: 3GE071009T2202							
				Customer ref.:				Type: M2AA 90L 2			Product Code: 3GAA091002-_DE
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor				690	Y 50	2,20	2890	2,50	0,84	S1	
Insul.cl.F				400	D 50	2,20	2890	4,50	0,84	S1	
IP55				460	D 60	2,20	3495	3,90	0,83	S1	
Eff class IE1				50Hz : IE1 - 82,6(100%) - 84,4(75%) - 83,7(50%) 60Hz : IE1 - 84,9(100%)							
Resistance				Ambient: 24,0 °C				Insulation resistance at 23 °C		Overload	
Line				R > 2000 Mohm				1000 V		Current 150% 120s	
U ₁ - V ₁				5,09900 Ω						Torque 160% 15s	
U ₁ - W ₁				5,09400 Ω						Speed 120% 120s	
V ₁ - W ₁				5,09600 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	2,2	0,15		3000	0,10			
Locked rotor test		82,5 D	50	4,6	0,36		0	0,55			
Thermal test (100% load)	7,3	400 D	50	4,5	2,66	2,20	2886	0,84	82,60		
Partial load points:											
~75% load	5,4	400 D	50	3,6	1,95	1,65	2918	0,77	84,40		
~50% load	3,6	400 D	50	2,9	1,31	1,10	2951	0,65	83,70		
~25% load	1,8	400 D	50	2,4	0,72	0,55	2978	0,43	76,80		
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :				68,2	3			1 Resistance			
Frame :				17	3			2 Thermometer			
Bearing D-end :				28	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		2007-03-26						
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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