



Type Test Report				Date of issue: 2011.12.28							
Customer:				Serial No.: 3GE073907T1104							
				Type: M3AA 90LB 4 Product Code: 3GAA092314-_DE							
Customer ref.:											
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				690	Y 50	1,1	1435	1,38	0,78	S1	
Insul.cl.F				400	D 50	1,1	1435	2,40	0,78	S1	
IP55				460	D 60	1,1	1740	2,10	0,76	S1	
Eff class IE2				50Hz : IE2 - 83,7(100%) - 84,1(75%) - 83,0(50%) 60Hz : IE2 - 84,6(100%)							
Resistance				Insulation resistance at 22 °C				Overload			
Line				Ambient: 23,0 °C				R > 2000 Mohm 1000 V			
U ₁ - V ₁				9,35000 Ω				Current 150 % 120s			
U ₁ - W ₁				9,35000 Ω				Torque 160 % 15s			
V ₁ - W ₁				9,36000 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	1,40	0,11		1500	0,11			
Locked rotor test		73 D	50	2,7	0,22		0	0,64			
Thermal test (100% load)	7,3	400 D	50	2,3	1,33	1,10	1433	0,81	82,90		
Partial load points:											
~75% load	5,5	400 D	50	1,92	1,00	0,83	1450	0,75	83,40		
~50% load	3,6	400 D	50	1,51	0,67	0,55	1465	0,64	82,10		
~25% load	1,8	400 D	50	1,18	0,37	0,28	1480	0,45	75,90		
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :					33,9	3		1 Resistance			
Frame :					18	3		2 Thermometer			
Bearing D-end :					6	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			8.10.2007					
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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