



Type Test Report				Date of issue: 2011.12.28					
Customer:				Serial No.: 3GE081610T0227					
Customer ref.:				Type: M3AA 100LC 4 Product Code: 3GAA102313-DE					
Rating:		V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor		690	Y 50	2,2	1450	2,60	0,79	S1	
Insul.cl.F		400	D 50	2,2	1450	4,60	0,79	S1	
IP55		460	D 60	2,2	1760	4,20	0,75	S1	
Eff class IE2		50Hz : IE2 - 86,4(100%) - 86,2(75%) - 84,1(50%) 60Hz : IE2 - 87,6(100%)							
Resistance Line		Ambient: 21,0 °C			Insulation resistance at 22 °C		Overload		
U ₁ - V ₁		3,82200 Ω			R > 2000 Mohm 1000 V		Current 150 % 120s		
U ₁ - W ₁		3,82100 Ω					Torque 160 % 15s		
V ₁ - W ₁		3,82500 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	2,6	0,17		1500	0,09	
Locked rotor test		68 D	50	4,8	0,30		0	0,53	
Thermal test (100% load)	14,5	400 D	50	4,6	2,55	2,20	1453	0,80	86,40
Partial load points:									
~75% load	10,8	400 D	50	3,7	1,91	1,65	1465	0,73	86,20
~50% load	7,1	400 D	50	3,1	1,31	1,10	1477	0,60	84,10
~25% load	3,5	400 D	50	2,5	0,72	0,55	1488	0,41	76,50
Temperature rise at rated load.		[°C]		[K]		Method		Measurement method	
Stator winding :				36,8		3		1 Resistance	
Frame :				18		3		2 Thermometer	
Bearing D-end :				25		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		17.6.2008					
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.