



Type Test Report					Date of issue: 2011.10.05						
Customer:					Serial No.: 3GAA093307T5502						
					Type: M2AA 71B 2 Product Code: 3GAA071002-_DE						
Customer ref.:											
Rating:											
					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					690	Y 50	0,55	2790	0,74	0,78	S1
Insul.cl.F					400	D 50	0,55	2790	1,29	0,78	S1
IP55					460	D 60	0,55	3420	1,12	0,75	S1
Resistance					Insulation resistance at 28,7 °C					Overload	
Line					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁					Ambient: 28,0 °C					Torque 160 % 15s	
U ₁ - W ₁					25,59000 Ω					Speed 120 % 120s	
V ₁ - W ₁					25,62000 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	0,81	0,06		3000	0,10			
Locked rotor test		105,1 D	50	1,50	0,12		0	0,44			
Thermal test (100% load)	1,9	400 D	50	1,29	0,70	0,55	2790	0,78	78,40		
Partial load points:											
~75% load	1,4	400 D	50	1,06	0,52	0,41	2841	0,70	79,80		
~50% load	0,9	400 D	50	0,90	0,35	0,28	2898	0,56	78,70		
~25% load	0,4	400 D	50	0,75	0,19	0,14	2947	0,37	70,90		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					41,2	3			1 Resistance		
Frame :					20,7	3			2 Thermometer		
Bearing D-end :					24,3	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 1.9.2009											
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.