



Type Test Report				Date of issue: 2011.10.05							
Customer:				Serial No.: 3GA100307T3702							
				Customer ref.:				Type: M2AA 71A 2			Product Code: 3GAA071001-_DE
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				690	Y 50	0,37	2800	0,54	0,76	S1	
Insul.cl.F				400	D 50	0,37	2800	0,95	0,76	S1	
IP55				460	D 60	0,37	3400	0,84	0,71	S1	
Resistance				Ambient: 17,8 °C				Insulation resistance at 25,2 °C		Overload	
Line				R > 2000 Mohm				1000 V		Current 150 % 120s	
U <sub>1</sub> - V <sub>1</sub>				42,04000 Ω						Torque 160 % 15s	
U <sub>1</sub> - W <sub>1</sub>				42,14000 Ω						Speed 120 % 120s	
V <sub>1</sub> - W <sub>1</sub>				41,90000 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	0,61	0,05		3000	0,12			
Locked rotor test		103 D	50	1,00	0,13		0	0,75			
Thermal test ( 100% load )	1,3	400 D	50	0,95	0,50	0,37	2800	0,76	73,80		
Partial load points:											
~75% load	0,9	400 D	50	0,80	0,37	0,28	2852	0,66	75,80		
~50% load	0,6	400 D	50	0,69	0,25	0,19	2910	0,52	73,90		
~25% load	0,3	400 D	50	0,64	0,15	0,09	2962	0,33	63,20		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				34,8	3			1 Resistance			
Frame :				27	3			2 Thermometer			
Bearing D-end :				21	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			5.2.2010					
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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