



Type Test Report					Date of issue: 2011.10.05						
Customer:					Serial No.: 3GA100307T3702						
					Type: M2AA 71A 2					Product Code: 3GAA071001-_SE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					230	D 50	0,37	2800	1,64	0,76	S1
Insul.cl.F					400	Y 50	0,37	2800	0,95	0,76	S1
IP55					460	Y 60	0,37	3400	0,84	0,71	S1
Resistance					Insulation resistance at 25,2 °C					Overload	
Line					R > 2000 Mohm 1000 V					Current 150 % 120s	
U <sub>1</sub> - V <sub>1</sub>					Ambient: 17,8 °C					Torque 160 % 15s	
U <sub>1</sub> - W <sub>1</sub>					42,04000 Ω					Speed 120 % 120s	
V <sub>1</sub> - W <sub>1</sub>					42,14000 Ω						
					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 Y	50	0,61	0,05		3000	0,12			
Locked rotor test		103 Y	50	1,00	0,13		0	0,75			
Thermal test ( 100% load )	1,3	400 Y	50	0,95	0,50	0,37	2800	0,76	73,80		
Partial load points:											
~75% load	0,9	400 Y	50	0,80	0,37	0,28	2852	0,66	75,80		
~50% load	0,6	400 Y	50	0,69	0,25	0,19	2910	0,52	73,90		
~25% load	0,3	400 Y	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	
								Telefax		+34 93 728 85 33	

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