



Type Test Report					Date of issue: 2011.10.05						
Customer:					Serial No.: 3GA093607T3704						
					Type: M2AA 71B 4					Product Code: 3GAA072002-_DE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					690	Y 50	0,37	1375	0,55	0,79	S1
Insul.cl.F					400	D 50	0,37	1375	0,96	0,79	S1
IP55					460	D 60	0,37	1695	0,86	0,72	S1
Resistance					Insulation resistance at 24,7 °C					Overload	
Line Ambient: 22,8 °C					R > 2000 Mohm 1000 V					Current 150 % 120s	
U <sub>1</sub> - V <sub>1</sub> 49,72000 Ω										Torque 160 % 15s	
U <sub>1</sub> - W <sub>1</sub> 49,51000 Ω										Speed 120 % 120s	
V <sub>1</sub> - W <sub>1</sub> 49,77000 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	0,66	0,07		1500	0,15			
Locked rotor test		112 D	50	1,10	0,17		0	0,77			
Thermal test ( 100% load )	2,6	400 D	50	0,96	0,53	0,37	1375	0,79	69,70		
Partial load points:											
~75% load	1,9	400 D	50	0,78	0,39	0,28	1411	0,71	71,90		
~50% load	1,2	400 D	50	0,63	0,26	0,19	1444	0,59	71,10		
~25% load	0,6	400 D	50	0,43	0,14	0,09	1471	0,46	67,00		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					49,3	3			1 Resistance		
Frame :					24,6	3			2 Thermometer		
Bearing D-end :					21,1	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			21.9.2009					
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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