



Type Test Report				Date of issue: 2011.12.28					
Customer:				Serial No.: 3GE100210T3002					
Customer ref.:				Type: M3AA 100LB 2 Product Code: 3GAA101312-_DE					
Rating:		V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor		690	Y 50	3,0	2920	3,3	0,86	S1	
Insul.cl.F		400	D 50	3,0	2920	5,8	0,86	S1	
IP55		460	D 60	3,0	3530	5,1	0,84	S1	
Eff class IE2		50Hz : IE2 - 86,4(100%) - 86,0(75%) - 83,9(50%) 60Hz : IE2 - 87,5(100%)							
Resistance Line		Ambient: 20,1 °C			Insulation resistance at 25,7 °C		Overload		
U <sub>1</sub> - V <sub>1</sub>		2,44000 Ω			R > 2000 Mohm 1000 V		Current 150 % 120s		
U <sub>1</sub> - W <sub>1</sub>		2,43000 Ω					Torque 160 % 15s		
V <sub>1</sub> - W <sub>1</sub>		2,43400 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	2,7	0,25		3000	0,13	
Locked rotor test		48,8 D	50	6,1	0,32		0	0,62	
Thermal test ( 100% load )	9,8	400 D	50	5,8	3,50	3,00	2918	0,87	85,60
Partial load points:									
~75% load	7,3	400 D	50	4,6	2,64	2,25	2939	0,82	85,30
~50% load	4,8	400 D	50	3,6	1,81	1,50	2958	0,72	83,10
~25% load	2,4	400 D	50	2,6	0,99	0,75	2977	0,53	75,50
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method		
Stator winding :				45,0	3		1 Resistance		
Frame :				19,1	3		2 Thermometer		
Bearing D-end :				30,8	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		19.1.2010					
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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