



Type Test Report					Date of issue: 2011.12.28						
Customer:					Serial No.: 3GE100210T3002						
					Type: M3AA 100LB 2					Product Code: 3GAA101312-_SE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					230	D 50	3,0	2920	10,0	0,86	S1
Insul.cl.F					400	Y 50	3,0	2920	5,8	0,86	S1
IP55					460	Y 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					Insulation resistance at 25,7 °C					Overload	
Line					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁					Ambient: 20,1 °C					Torque 160 % 15s	
U ₁ - W ₁					2,44000 Ω					Speed 120 % 120s	
V ₁ - W ₁					2,43000 Ω						
					2,43400 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	2,7	0,25		3000	0,13			
Locked rotor test		48,8 Y	50	6,1	0,32		0	0,62			
Thermal test (100% load)	9,8	400 Y	50	5,8	3,50	3,00	2918	0,87	85,60		
Partial load points:											
~75% load	7,3	400 Y	50	4,6	2,64	2,25	2939	0,82	85,30		
~50% load	4,8	400 Y	50	3,6	1,81	1,50	2958	0,72	83,10		
~25% load	2,4	400 Y	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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