



Type Test Report					Date of issue: 2011.12.28						
Customer:					Serial No.: 3GE081909T0732						
					Type: M3AA 90LB 6					Product Code: 3GAA093313-_SE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					230	D 50	0,75	930	3,30	0,71	S1
Insul.cl.F					400	Y 50	0,75	930	1,96	0,71	S1
IP55					460	Y 60	0,75	1140	1,71	0,68	S1
Eff class IE2					50Hz : IE2 - 77,6(100%) - 76,2(75%) - 75,6(50%)						
					60Hz : IE2 - 80,7(100%)						
Resistance					Insulation resistance at 21 °C					Overload	
Line					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁					Ambient: 24,0 °C					Torque 160 % 15s	
U ₁ - W ₁					18,82000 Ω					Speed 120 % 120s	
V ₁ - W ₁					18,83000 Ω						
					18,81000 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	1,25	0,10		1000	0,12			
Locked rotor test		111 Y	50	2,00	0,26		0	0,67			
Thermal test (100% load)	7,7	400 Y	50	1,93	0,98	0,75	931	0,73	76,50		
Partial load points:											
~75% load	5,6	400 Y	50	1,64	0,73	0,56	950	0,64	76,90		
~50% load	3,7	400 Y	50	1,44	0,51	0,38	968	0,51	74,40		
~25% load	1,8	400 Y	50	1,31	0,30	0,19	985	0,33	63,10		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					37,1	3			1 Resistance		
Frame :					21,0	3			2 Thermometer		
Bearing D-end :					21,0	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		13.6.2008						
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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