



Type Test Report					Date of issue: 2012.02.15						
Customer:					Serial No.: 3GE081609T5508						
					Type: M3AA 90L 8					Product Code: 3GAA094002-_SE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					230	D 50	0,55	660	3,90	0,58	S1
Insul.cl.F					400	Y 50	0,55	660	2,30	0,58	S1
IP55					460	Y 60	0,55	825	2,00	0,52	S1
Resistance					Insulation resistance at 25 °C					Overload	
Line Ambient: 18,0 °C					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁ 21,84000 Ω										Torque 160 % 15s	
U ₁ - W ₁ 21,84000 Ω										Speed 120 % 120s	
V ₁ - W ₁ 21,85000 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	2,1	0,23		750	0,16			
Locked rotor test		154,6 Y	50	2,3	0,39		0	0,63			
Thermal test (100% load)	7,6	400 Y	50	2,3	0,88	0,55	695	0,54	62,80		
Partial load points:											
~75% load	5,5	400 Y	50	2,2	0,69	0,41	710	0,45	59,80		
~50% load	3,6	400 Y	50	2,1	0,53	0,28	720	0,35	52,20		
~25% load	1,8	400 Y	50	2,2	0,39	0,14	737	0,25	35,70		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					63,5	3			1 Resistance		
Frame :					36,9	3			2 Thermometer		
Bearing D-end :					39,4	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			11.3.2009					
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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