



Type Test Report					Date of issue: 2011.12.28						
Customer:					Serial No.: 3GE080109T3708						
					Type: M3AA 90S 8					Product Code: 3GAA094001-_SE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					230	D 50	0,37	695	2,80	0,54	S1
Insul.cl.F					400	Y 50	0,37	695	1,66	0,54	S1
IP55					460	Y 60	0,37	845	1,53	0,48	S1
Resistance					Insulation resistance at 12 °C					Overload	
Line Ambient: 10,0 °C					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁ 34,31000 Ω										Torque 160 % 15s	
U ₁ - W ₁ 34,30000 Ω										Speed 120 % 120s	
V ₁ - W ₁ 34,33000 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	1,53	0,20		750	0,19			
Locked rotor test		170 Y	50	1,70	0,31		0	0,62			
Thermal test (100% load)	5,1	400 Y	50	1,67	0,65	0,37	693	0,56	57,30		
Partial load points:											
~75% load	3,8	400 Y	50	1,59	0,52	0,28	709	0,47	54,00		
~50% load	2,5	400 Y	50	1,51	0,41	0,19	722	0,39	46,50		
~25% load	1,2	400 Y	50	1,44	0,29	0,09	736	0,29	30,80		
Temperature rise at rated load.					°C	[K]	Method		Measurement method		
Stator winding :					66,5	3			1 Resistance		
Frame :					33	3			2 Thermometer		
Bearing D-end :					35	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			21.1.2008					
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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