



Type Test Report					Date of issue: 2011.12.28						
Customer:					Serial No.: 3GE112909P4627						
					Type: M3AA 90LD 6					Product Code: 3GAA093314-_SE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					230	D 50	1,1	935	5,10	0,66	S1
Insul.cl.F					400	Y 50	1,1	935	3,00	0,66	S1
IP55					460	Y 60	1,1	1145	2,60	0,64	S1
50Hz : IE2 - 78,2(100%) - 79,1(75%) - 76,5(50%)											
60Hz : IE1 - 81,0(100%)											
Resistance					Insulation resistance at 24,5 °C					Overload	
Line Ambient: 20,9 °C					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁ 10,70000 Ω										Torque 160 % 15s	
U ₁ - W ₁ 10,70000 Ω										Speed 120 % 120s	
V ₁ - W ₁ 10,71000 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	2,09	0,14		1000	0,10			
Locked rotor test		115,2 Y	50	3,0	0,37		0	0,62			
Thermal test (100% load)	11,2	400 Y	50	2,9	1,40	1,10	937	0,69	78,30		
Partial load points:											
~75% load	8,3	400 Y	50	2,5	1,06	0,83	954	0,59	78,60		
~50% load	5,4	400 Y	50	2,2	0,73	0,55	970	0,46	75,80		
~25% load	2,7	400 Y	50	2,1	0,43	0,28	984	0,29	64,90		
Temperature rise at rated load.					°C	K	Method		Measurement method		
Stator winding :					44,5	3			1 Resistance		
Frame :					26,5	3			2 Thermometer		
Bearing D-end :					29,7	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			18.11.2011					
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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