



Type Test Report				Date of issue: 2011.12.28							
Customer:				Serial No.: 3GE112909P4627							
				Type: M3AA 90LD 6 Product Code: 3GAA093314-DE							
Customer ref.:											
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				690	Y 50	1,1	935	1,73	0,66	S1	
Insul.cl.F				400	D 50	1,1	935	3,00	0,66	S1	
IP55				460	D 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 D	50	2,09	0,14		1000	0,10			
Locked rotor test		115,2 D	50	3,0	0,37		0	0,62			
Thermal test (100% load)	11,2	400 D	50	2,9	1,40	1,10	937	0,69	78,30		
Partial load points:											
~75% load	8,3	400 D	50	2,5	1,06	0,83	954	0,59	78,60		
~50% load	5,4	400 D	50	2,2	0,73	0,55	970	0,46	75,80		
~25% load	2,7	400 D	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		
							Telefax		+34 93 728 85 33		

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