



Type Test Report				Date of issue: 2011.12.28							
Customer:				Serial No.: 3GE101710T3004							
				Type: M3AA 100LD 4							
Customer ref.:				Product Code: 3GAA102314-DE							
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				690	Y 50	3,0	1445	3,60	0,79	S1	
Insul.cl.F				400	D 50	3,0	1445	6,30	0,79	S1	
IP55				460	D 60	3,0	1750	5,30	0,80	S1	
Eff class IE2				50Hz : IE2 - 85,7(100%) - 86,1(75%) - 85,1(50%)							
60Hz : IE2 - 88,2(100%)											
Resistance				Insulation resistance at 23,4 °C				Overload			
Line				R > 2000 Mohm 1000 V				Current 150 % 120s			
U ₁ - V ₁				Ambient: 23,8 °C				Torque 160 % 15s			
U ₁ - W ₁				3,18900 Ω				Speed 120 % 120s			
V ₁ - W ₁				3,18500 Ω							
				3,18600 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	3,7	0,2		1500	0,08			
Locked rotor test		71,6 D	50	6,4	0,45		0	0,57			
Thermal test (100% load)	19,9	400 D	50	6,4	3,52	3,00	1442	0,79	85,30		
Partial load points:											
~75% load	14,7	400 D	50	5,3	2,63	2,25	1458	0,71	85,70		
~50% load	9,7	400 D	50	4,4	1,78	1,50	1473	0,58	84,40		
~25% load	4,8	400 D	50	3,9	0,98	0,75	1488	0,36	76,30		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				50,4	3			1 Resistance			
Frame :				23,3	3			2 Thermometer			
Bearing D-end :				24,1	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			11.5.2010					
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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