



Type Test Report				Date of issue: 2011.12.28							
Customer:				Serial No.: 3GE093410T0003							
				Type: M3AA 100LC 4 HO Product Code: 3GAA102003-_DE							
Customer ref.:											
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				690	Y 50	4,0	1415	5,20	0,76	S1	
Insul.cl.F				400	D 50	4,0	1415	9,10	0,76	S1	
IP55				460	D 60	4,0	1730	7,50	0,77	S1	
Eff class IE1				50Hz : IE1 - 83,2(100%) - 85,8(75%) - 85,5(50%) 60Hz : IE1 - 86,8(100%)							
Resistance				Insulation resistance at 29,6 °C				Overload			
Line				R > 2000 Mohm 1000 V				Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U ₁ - V ₁				Ambient: 22,6 °C							
U ₁ - W ₁				2,84300 Ω							
V ₁ - W ₁				2,84400 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	5,0	0,30		1500	0,09			
Locked rotor test		95,9 D	50	8,9	0,87		0	0,59			
Thermal test (100% load)	27,0	400 D	50	8,7	4,95	4,00	1416	0,82	80,80		
Partial load points:											
~75% load	19,9	400 D	50	6,9	3,64	3,00	1441	0,76	82,40		
~50% load	13,1	400 D	50	5,5	2,44	2,00	1461	0,64	81,80		
~25% load	6,5	400 D	50	4,7	1,34	1,00	1480	0,41	74,40		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				93,2	3			1 Resistance			
Frame :				44,9	3			2 Thermometer			
Bearing D-end :				51,3	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			1.10.2009					
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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