



Type Test Report					Date of issue: 2012.03.19						
Customer:					Serial No.: 3GE121209S1804						
					Type: M3AA 090 L 4 HO					Product Code: 3GAA092003-_DE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					690	Y 50	1,85	1410	2,50	0,76	S1
Insul.cl.F					400	D 50	1,85	1410	4,40	0,76	S1
IP55					460	D 60	1,85	1695	3,70	0,74	S1
Eff class IE1					50Hz : IE1 - 79,7(100%) - 82(75%) - 80,9(50%)						
60Hz : IE1 - 83,7(100%)											
Resistance					Insulation resistance at 25 °C					Overload	
Line Ambient: 16,5 °C					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁ 6,90000 Ω										Torque 160 % 15s	
U ₁ - W ₁ 6,93000 Ω										Speed 120 % 120s	
V ₁ - W ₁ 6,94000 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	2,7	0,19		1500	0,10			
Locked rotor test		89,7 D	50	4,1	0,46		0	0,71			
Thermal test (100% load)	12,6	400 D	50	4,2	2,35	1,85	1398	0,79	78,70		
Partial load points:											
~75% load	9,3	400 D	50	3,5	1,73	1,39	1428	0,71	80,10		
~50% load	6,1	400 D	50	3,0	1,18	0,93	1455	0,56	78,60		
~25% load	3,0	400 D	50	2,7	0,67	0,46	1478	0,35	69,40		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				62,6	3			1 Resistance			
Frame :				35	3			2 Thermometer			
Bearing D-end :				38,4	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			16.3.2012					
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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