



Type Test Report					Date of issue: 2011.12.28						
Customer:					Serial No.: 3GE081610T0228						
					Type: M3AA 112MB 2					Product Code: 3GAA111312-SE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					230	D 50	4,0	2885	13,10	0,88	S1
Insul.cl.F					400	Y 50	4,0	2885	7,60	0,88	S1
IP55					460	Y 60	4,0	3490	6,20	0,91	S1
Eff class IE2					50Hz : IE2 - 86,1(100%) - 87,0(75%) - 88,0(50%)						
60Hz : IE2 - 87,6(100%)											
Resistance					Insulation resistance at 22 °C					Overload	
Line Ambient: 19,0 °C					R > 2000 Mohm 1000 V					Current 150 % 120s	
U ₁ - V ₁ 2,41100 Ω										Torque 160 % 15s	
U ₁ - W ₁ 2,41200 Ω										Speed 120 % 120s	
V ₁ - W ₁ 2,41300 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	1,97	0,18		3000	0,13			
Locked rotor test		67 Y	50	7,5	0,51		0	0,58			
Thermal test (100% load)	13,2	400 Y	50	7,1	4,63	4,00	2884	0,93	86,30		
Partial load points:											
~75% load	9,8	400 Y	50	5,4	3,42	3,00	2914	0,91	87,80		
~50% load	6,5	400 Y	50	3,7	2,28	2,00	2941	0,87	87,70		
~25% load	3,2	400 Y	50	2,4	1,19	1,00	2972	0,70	83,90		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				60,8	3			1 Resistance			
Frame :				29,0	3			2 Thermometer			
Bearing D-end :				40,0	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			16.5.2008					
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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