



Type Test Report					Date of issue: 2011.12.28						
Customer:					Serial No.: 3GE081610T0227						
					Type: M3AA 100LC 4					Product Code: 3GAA102313-_SE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					230	D 50	2,2	1450	7,90	0,79	S1
Insul.cl.F					400	Y 50	2,2	1450	4,60	0,79	S1
IP55					460	Y 60	2,2	1760	4,20	0,75	S1
Eff class IE2					50Hz : IE2 - 86,4(100%) - 86,2(75%) - 84,1(50%)						
60Hz : IE2 - 87,6(100%)											
Resistance					Insulation resistance at 22 °C					Overload	
Line Ambient: 21,0 °C					R > 2000 Mohm 1000 V					Current 150 % 120s	
U <sub>1</sub> - V <sub>1</sub> 3,82200 Ω										Torque 160 % 15s	
U <sub>1</sub> - W <sub>1</sub> 3,82100 Ω										Speed 120 % 120s	
V <sub>1</sub> - W <sub>1</sub> 3,82500 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	2,6	0,17		1500	0,09			
Locked rotor test		68 Y	50	4,8	0,30		0	0,53			
Thermal test ( 100% load )	14,5	400 Y	50	4,6	2,55	2,20	1453	0,80	86,40		
Partial load points:											
~75% load	10,8	400 Y	50	3,7	1,91	1,65	1465	0,73	86,20		
~50% load	7,1	400 Y	50	3,1	1,31	1,10	1477	0,60	84,10		
~25% load	3,5	400 Y	50	2,5	0,72	0,55	1488	0,41	76,50		
Temperature rise at rated load.					°C	[K]	Method		Measurement method		
Stator winding :					36,8	3			1 Resistance		
Frame :					18	3			2 Thermometer		
Bearing D-end :					25	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			17.6.2008					
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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