



Type Test Report					Date of issue: 2011.12.28						
Customer:					Serial No.: 3GE093410T0003						
					Type: M3AA 100LC 4 HO					Product Code: 3GAA102003-_SE	
Customer ref.:											
Rating:					V	Hz	kW	r/min	A	cos φ	Duty
3~Motor					230	D 50	4,0	1415	15,70	0,76	S1
Insul.cl.F					400	Y 50	4,0	1415	9,10	0,76	S1
IP55					460	Y 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	
U <sub>1</sub> - V <sub>1</sub>					Ambient: 22,6 °C					Torque 160 % 15s	
U <sub>1</sub> - W <sub>1</sub>					2,84300 Ω					Speed 120 % 120s	
V <sub>1</sub> - W <sub>1</sub>					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 Y	50	5,0	0,30		1500	0,09			
Locked rotor test		95,9 Y	50	8,9	0,87		0	0,59			
Thermal test ( 100% load )	27,0	400 Y	50	8,7	4,95	4,00	1416	0,82	80,80		
Partial load points:											
~75% load	19,9	400 Y	50	6,9	3,64	3,00	1441	0,76	82,40		
~50% load	13,1	400 Y	50	5,5	2,44	2,00	1461	0,64	81,80		
~25% load	6,5	400 Y	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	
								Telefax		+34 93 728 85 33	

Computer print-out valid without signature.