



Type Test Report					Date of issue: 2015-03-16								
Customer:					Serial No.: 3G1T09500000010888								
					Type: M1AA 160 MLA 4 Product Code: 3GAA162061-_SA								
Customer ref.:													
Rating:					V	Hz	kW	r/min	A	cos φ	Duty		
3~Motor					230	D	50	11,00	1450	38,40	0,82 S1		
Insul.cl.F					400	Y	50	11,00	1450	22,20	0,82 S1		
IP55					460	Y	60	11,00	1750	19,30	0,81 S1		
Eff class IE1					50Hz : IE1-87.6(100%)-88.3(75%)-87.6(50%) 60Hz :								
Resistance Line					Ambient: 25 °C U ₁ - V ₁ 0,86700 Ω U ₁ - W ₁ 0,86500 Ω V ₁ - W ₁ 0,86700 Ω					Insulation resistance at 25 °C R > 2000 Mohm 1000 V		Overload Current 150% 120s Torque 160% 15s Speed 120% 120s	
					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	10,42	0,43		1500	0,06					
Locked rotor test		62 Y	50	22,2	1,22		0	0,51					
Thermal test (100% load)	72,1	400 Y	50	22,10	12,27	11,01	1458	0,81	88,79				
Partial load points:													
~75% load	54,1	400 Y	50	17,7	9,17	8,26	1475	0,75	89,80				
~50% load	36,1	400 Y	50	14,05	6,17	5,63	1484	0,65	88,97				
~25% load	18,0	400 Y	50	11,41	3,25	2,81	1493	0,41	86,84				
Temperature rise at rated load.					°C	K	Method		Measurement method				
Stator winding :					50,5	3			1 Resistance				
Frame :									2 Thermometer				
Bearing D-end :									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 2009-12-10													

Computer print-out valid without signature.