



Type Test Report				Date of issue: 2015-04-13																															
				Serial No.: 3G1T10510000010912																															
Customer:				Type: M1AA 160 MLA 2 Product Code: 3GAA161061-_DA																															
Customer ref.:																																			
Rating:		<table><tr><td>V</td><td>Hz</td><td>kW</td><td>r/min</td><td>A</td><td>cos φ</td><td>Duty</td></tr><tr><td>3~Motor</td><td>690 Y 50</td><td>11,00</td><td>2900</td><td>11,5</td><td>0,91</td><td>S1</td></tr><tr><td>Insul.cl.F</td><td>400 D 50</td><td>11,00</td><td>2900</td><td>20,00</td><td>0,91</td><td>S1</td></tr><tr><td>IP55</td><td>460 D 60</td><td>11,00</td><td>3500</td><td>17,30</td><td>0,91</td><td>S1</td></tr></table>						V	Hz	kW	r/min	A	cos φ	Duty	3~Motor	690 Y 50	11,00	2900	11,5	0,91	S1	Insul.cl.F	400 D 50	11,00	2900	20,00	0,91	S1	IP55	460 D 60	11,00	3500	17,30	0,91	S1
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Eff class IE1		50Hz : IE1-87.6(100%)-87.3(75%)-86(50%) 60Hz : IE1-87.7(100%)-87.5(75%)-86.1(50%)																																	
Resistance Line		Ambient: 25 °C		Insulation resistance at 25 °C R > 2000 Mohm 1000 V		Overload Current 150% 120s Torque 160% 15s Speed 120% 120s																													
U ₁ - V ₁ U ₁ - W ₁ V ₁ - W ₁		0,98200 Ω 0,98500 Ω 0,98600 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	5,00	0,58		3000	0,17																											
Locked rotor test		55 D	50	20,04	1,01		0	0,52																											
Thermal test (100% load)	36,2	400 D	50	19,63	12,48	11,01	2904	0,91	88,98																										
Partial load points:																																			
~75% load	27,2	400 D	50	15,1	9,31	8,26	2930	0,89	88,82																										
~50% load	18,1	400 D	50	10,76	6,33	5,51	2957	0,85	87,10																										
~25% load	9,1	400 D	50	7,00	3,36	2,75	2977	0,68	82,99																										
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method																												
Stator winding :		74,5		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		2010-12-08																															

Computer print-out valid without signature.