



Type Test Report					Date of issue: 2015-03-16																																
Customer:					Serial No.: 3G1T03080000010463																																
Customer ref.:					Type: M1AA 180 MLA 2 Product Code: 3GAA181061-_SA																																
Rating:					<table border="1"> <thead> <tr> <th>V</th> <th>Hz</th> <th>kW</th> <th>r/min</th> <th>A</th> <th>cos φ</th> <th>Duty</th> </tr> </thead> <tbody> <tr> <td>230</td> <td>D 50</td> <td>22</td> <td>2940</td> <td>66.5</td> <td>0,92</td> <td>S1</td> </tr> <tr> <td>400</td> <td>Y 50</td> <td>22</td> <td>2940</td> <td>38.4</td> <td>0,92</td> <td>S1</td> </tr> <tr> <td>460</td> <td>Y 60</td> <td>22</td> <td>3530</td> <td>33.3</td> <td>0,92</td> <td>S1</td> </tr> </tbody> </table>					V	Hz	kW	r/min	A	cos φ	Duty	230	D 50	22	2940	66.5	0,92	S1	400	Y 50	22	2940	38.4	0,92	S1	460	Y 60	22	3530	33.3	0,92	S1
V	Hz	kW	r/min	A	cos φ	Duty																															
230	D 50	22	2940	66.5	0,92	S1																															
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460	Y 60	22	3530	33.3	0,92	S1																															
3~Motor Insul.cl.F IP55 Eff class IE1					50Hz : IE1-89.9(100%)-89.9(75%)-88.8(50%) 60Hz : IE1-90.2(100%)-90.2(75%)-89.2(50%)																																
Resistance Line					Ambient: 25 °C U ₁ - V ₁ 0,43800 Ω U ₁ - W ₁ 0,43800 Ω V ₁ - W ₁ 0,43900 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		12,70	1,38		3000	0,16																													
Locked rotor test		81,4 Y 50		22,8	1,54		0	0,48																													
Thermal test (100% load)	75,0	400 Y 50		38,20	23,92	22,02	2959	0,92	90,81																												
Partial load points:																																					
~75% load	56,3	400 Y 50		30,3	18,30	16,61	2975	0,87	90,80																												
~50% load	37,5	400 Y 50		22,72	12,45	11,15	2982	0,79	89,69																												
~25% load	18,8	400 Y 50		16,22	6,79	5,59	2989	0,60	83,49																												
Temperature rise at rated load.					<table border="1"> <thead> <tr> <th></th> <th>[°C]</th> <th>[K]</th> <th>Method</th> </tr> </thead> <tbody> <tr> <td>Stator winding :</td> <td></td> <td>78,6</td> <td>3</td> </tr> <tr> <td>Frame :</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Bearing D-end :</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Ambient Temperature :</td> <td>25</td> <td></td> <td>3</td> </tr> </tbody> </table>						[°C]	[K]	Method	Stator winding :		78,6	3	Frame :				Bearing D-end :				Ambient Temperature :	25		3								
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					Measurement method 1 Resistance 2 Thermometer 3 Thermocouples																																
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 2008-01-18																																

Computer print-out valid without signature.