



Type Test Report					Date of issue: 2015-03-16																																
Customer:					Serial No.: 3G1T12110000011996																																
Customer ref.:					Type: M1AA 160 MLB 4 Product Code: 3GAA162062-_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>15</td> <td>1455</td> <td>50.2</td> <td>0,84</td> <td>S1</td> </tr> <tr> <td>400</td> <td>Y 50</td> <td>15</td> <td>1455</td> <td>29.0</td> <td>0,84</td> <td>S1</td> </tr> <tr> <td>460</td> <td>Y 60</td> <td>15</td> <td>1755</td> <td>25.2</td> <td>0,83</td> <td>S1</td> </tr> </tbody> </table>					V	Hz	kW	r/min	A	cos φ	Duty	230	D 50	15	1455	50.2	0,84	S1	400	Y 50	15	1455	29.0	0,84	S1	460	Y 60	15	1755	25.2	0,83	S1
V	Hz	kW	r/min	A	cos φ	Duty																															
230	D 50	15	1455	50.2	0,84	S1																															
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3~Motor Insul.cl.F IP55 Eff class IE1					50Hz : IE1-88.7(100%)-88.9(75%)-88.5(50%) 60Hz : IE1-90.1(100%)-90.4(75%)-89.9(50%)																																
Resistance Line					Ambient: 25 °C U ₁ - V ₁ 0,77000 Ω U ₁ - W ₁ 0,77200 Ω V ₁ - W ₁ 0,77000 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]	η[r/min]	cos φ	η [%]																												
No load test		400 Y 50		12,24	0,60		1500	0,07																													
Locked rotor test		65 Y 50		29,1	1,57		0	0,48																													
Thermal test (100% load)	98,5	400 Y 50		29,30	16,91	15,01	1455	0,84	88,55																												
Partial load points:																																					
~75% load	73,9	400 Y 50		23,4	12,69	11,30	1467	0,79	88,79																												
~50% load	49,3	400 Y 50		17,87	8,44	7,56	1477	0,69	88,50																												
~25% load	24,6	400 Y 50		13,86	4,45	3,83	1487	0,46	86,03																												
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>84,7</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 :		84,7	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 2012-03-15																																

Computer print-out valid without signature.