



Type Test Report				Date of issue: 2015-03-16																															
Customer:				Serial No.: 3G1T10020000010908																															
Customer ref.:				Type: M1AA 160 MLB 2 Product Code: 3GAA161062-_DA																															
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>690</td> <td>Y 50</td> <td>15,00</td> <td>2910</td> <td>15,4</td> <td>0,91</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>15,00</td> <td>2910</td> <td>26,70</td> <td>0,91</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>15,00</td> <td>3505</td> <td>23,10</td> <td>0,91</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	15,00	2910	15,4	0,91	S1	400	D 50	15,00	2910	26,70	0,91	S1	460	D 60	15,00	3505	23,10	0,91	S1
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3~Motor																																			
Insul.cl.F																																			
IP55																																			
Eff class IE1		50Hz : IE1-88.7(100%)-89.1(75%)-88.6(50%) 60Hz : IE1-89.6(100%)-90(75%)-89.6(50%)																																	
Resistance		Ambient: 25 °C Line U ₁ - V ₁ 0,67800 Ω U ₁ - W ₁ 0,67800 Ω V ₁ - W ₁ 0,68000 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 D	50	6,76	0,56		3000	0,12																											
Locked rotor test		55,4 D	50	26,7	1,17		0	0,46																											
Thermal test (100% load)	49,2	400 D	50	26,69	16,80	14,96	2902	0,91	88,92																										
Partial load points:																																			
~75% load	36,9	400 D	50	20,1	12,50	11,22	2929	0,89	90,45																										
~50% load	24,6	400 D	50	14,37	8,39	7,48	2968	0,84	89,24																										
~25% load	12,3	400 D	50	9,35	4,35	3,74	2980	0,67	86,57																										
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>83,8</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 :		83,8	3	Frame :				Bearing D-end :				Ambient Temperature :	25		3	Measurement method 1 Resistance 2 Thermometer 3 Thermocouples									
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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		2010-01-11																															

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