



Type Test Report				Date of issue: 2015-03-16																															
Customer:				Serial No.: 3G1T12320000011128																															
Customer ref.:				Type: M1AA 160 MLC 2 Product Code: 3GAA161064-_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>22,00</td> <td>2920</td> <td>22,5</td> <td>0,91</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>22,00</td> <td>2920</td> <td>39,00</td> <td>0,91</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>22,00</td> <td>3525</td> <td>33,70</td> <td>0,91</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	22,00	2920	22,5	0,91	S1	400	D 50	22,00	2920	39,00	0,91	S1	460	D 60	22,00	3525	33,70	0,91	S1
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3~Motor																																			
Insul.cl.F																																			
IP55																																			
Eff class IE1		50Hz : IE1-89.9(100%)-89.9(75%)-88.8(50%) 60Hz : IE1-89.8(100%)-89.8(75%)-88.7(50%)																																	
Resistance		Ambient: 25 °C Line U ₁ - V ₁ 0,41200 Ω U ₁ - W ₁ 0,41200 Ω V ₁ - W ₁ 0,41100 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 D	50	8,31	1,11		3000	0,19																											
Locked rotor test		48 D	50	38,4	1,34		0	0,42																											
Thermal test (100% load)	71,7	400 D	50	38,20	24,13	22,05	2935	0,91	91,56																										
Partial load points:																																			
~75% load	53,8	400 D	50	29,2	18,17	16,60	2959	0,90	91,48																										
~50% load	35,9	400 D	50	20,30	12,18	11,02	2973	0,86	91,11																										
~25% load	17,9	400 D	50	13,14	6,72	5,66	2986	0,73	85,21																										
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>86,1</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 :		86,1	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		2010-08-09																															

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