



Type Test Report				Date of issue: 1.9.2015																																																						
Customer:				Serial No.:																																																						
Customer ref.:				Type: M3AA 200MLB 6 Product Code: 3GAA203420-ADK																																																						
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>22,0</td> <td>990</td> <td>24,9</td> <td>0,79</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>22,0</td> <td>990</td> <td>43,0</td> <td>0,79</td> <td>S1</td> </tr> <tr> <td>660</td> <td>Y 50</td> <td>22,0</td> <td>988</td> <td>25,2</td> <td>0,82</td> <td>S1</td> </tr> <tr> <td>380</td> <td>D 50</td> <td>22,0</td> <td>988</td> <td>43,7</td> <td>0,82</td> <td>S1</td> </tr> <tr> <td>415</td> <td>D 50</td> <td>22,0</td> <td>991</td> <td>43,2</td> <td>0,76</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>22,0</td> <td>1191</td> <td>37,7</td> <td>0,78</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	22,0	990	24,9	0,79	S1	400	D 50	22,0	990	43,0	0,79	S1	660	Y 50	22,0	988	25,2	0,82	S1	380	D 50	22,0	988	43,7	0,82	S1	415	D 50	22,0	991	43,2	0,76	S1	460	D 60	22,0	1191	37,7	0,78	S1
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Eff class IE3				50Hz : IE3 - 93,3(100%) - 93,7(75%) - 93,1(50%) 60Hz : IE3 - 93,8(100%)																																																						
Resistance				Insulation resistance at				Overload																																																		
Line				R > 2000 Mohm 1000 V				Volt. 130 % 60s																																																		
U <sub>1</sub> - V <sub>1</sub>				Ambient: 23,1 °C				Curr. 160 % 120s																																																		
U <sub>1</sub> - W <sub>1</sub>				0,2148 Ω				Speed 120 % 120s																																																		
V <sub>1</sub> - W <sub>1</sub>				0,2149 Ω																																																						
				0,2146 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		400,3 D	50	20,2	0,50		1000	0,04																																																		
Locked rotor test		78,3 D	50	45,8	2,00			0,32																																																		
Thermal test ( 100% load )	212,3	400 D	50	43,2	23,50	22,00	990	0,78	93,70																																																	
Partial load points:																																																										
~75% load	158,8	400 D	50	34,9	17,60	16,50	992	0,73	94,00																																																	
~50% load	105,6	400 D	50	27,9	11,80	11,00	995	0,61	93,50																																																	
~25% load	52,6	400 D	50	22,2	6,10	5,50	998	0,39	90,60																																																	
Temperature rise at rated load.			[°C]	[K]	Method		Measurement method																																																			
Stator winding :			52,8	52,8	1		1 Resistance																																																			
Frame :			48		2		2 Thermometer																																																			
Bearing D-end :			51		2		3 Thermocouples																																																			
Ambient Temperature :			24		2																																																					
<p>These tests have been carried out on motor no. 3GV13 11256187 001 , on date 2013-09-25 which is identical in electrical design with the above.</p> <p>Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p>																																																										
On behalf of customer																																																										
On behalf of manufacturer					Date of test																																																					
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