



Type Test Report				Date of issue: 1.9.2015																																																						
Customer:				Serial No.:																																																						
Customer ref.:				Type: M3AA 200MLA 4 Product Code: 3GAA202410-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>30,0</td> <td>1484</td> <td>31,7</td> <td>0,84</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>30,0</td> <td>1484</td> <td>54,6</td> <td>0,84</td> <td>S1</td> </tr> <tr> <td>660</td> <td>Y 50</td> <td>30,0</td> <td>1481</td> <td>32,8</td> <td>0,85</td> <td>S1</td> </tr> <tr> <td>380</td> <td>D 50</td> <td>30,0</td> <td>1481</td> <td>56,9</td> <td>0,85</td> <td>S1</td> </tr> <tr> <td>415</td> <td>D 50</td> <td>30,0</td> <td>1485</td> <td>53,8</td> <td>0,82</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>30,0</td> <td>1786</td> <td>47,9</td> <td>0,83</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	30,0	1484	31,7	0,84	S1	400	D 50	30,0	1484	54,6	0,84	S1	660	Y 50	30,0	1481	32,8	0,85	S1	380	D 50	30,0	1481	56,9	0,85	S1	415	D 50	30,0	1485	53,8	0,82	S1	460	D 60	30,0	1786	47,9	0,83	S1
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Eff class IE3				50Hz : IE3 - 94,4(100%) - 94,8(75%) - 94,6(50%) 60Hz : IE3 - 94,7(100%)																																																						
Resistance				Insulation resistance at				Overload																																																		
Line				R > 2000 Mohm 1000 V				Volt. 130 % 60s																																																		
U ₁ - V ₁				Ambient: 24,0 °C				Curr. 160 % 120s																																																		
U ₁ - W ₁				0,1237 Ω				Speed 120 % 120s																																																		
V ₁ - W ₁				0,1237 Ω																																																						
				0,1236 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		400,7 D	50	21,9	0,50		1500	0,03																																																		
Locked rotor test		70,2 D	50	54,7	2,00			0,30																																																		
Thermal test (100% load)	193,1	400 D	50	55,5	31,70	30,00	1484	0,82	94,70																																																	
Partial load points:																																																										
~75% load	144,4	400 D	50	44,2	23,70	22,50	1488	0,77	95,10																																																	
~50% load	96,0	400 D	50	34,0	15,80	15,00	1493	0,67	94,90																																																	
~25% load	47,9	400 D	50	26,0	8,10	7,50	1497	0,45	92,70																																																	
Temperature rise at rated load.			[°C]	[K]	Method		Measurement method																																																			
Stator winding :			48,4	48,4	1		1 Resistance																																																			
Frame :			43		2		2 Thermometer																																																			
Bearing D-end :			56		2		3 Thermocouples																																																			
Ambient Temperature :			25		2																																																					
<p>These tests have been carried out on motor no. 3GV13 11256186 001 , on date 2013-10-13 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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