



Type Test Report				Date of issue: 1.9.2015																																																						
Customer:				Serial No.:																																																						
Customer ref.:				Type: M3AA 180MLB 4 Product Code: 3GAA182420-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>1480</td> <td>24,1</td> <td>0,82</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>22,0</td> <td>1480</td> <td>41,5</td> <td>0,82</td> <td>S1</td> </tr> <tr> <td>660</td> <td>Y 50</td> <td>22,0</td> <td>1477</td> <td>42,7</td> <td>0,84</td> <td>S1</td> </tr> <tr> <td>380</td> <td>D 50</td> <td>22,0</td> <td>1477</td> <td>42,7</td> <td>0,84</td> <td>S1</td> </tr> <tr> <td>415</td> <td>D 50</td> <td>22,0</td> <td>1482</td> <td>40,9</td> <td>0,80</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>22,0</td> <td>1783</td> <td>35,8</td> <td>0,82</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	22,0	1480	24,1	0,82	S1	400	D 50	22,0	1480	41,5	0,82	S1	660	Y 50	22,0	1477	42,7	0,84	S1	380	D 50	22,0	1477	42,7	0,84	S1	415	D 50	22,0	1482	40,9	0,80	S1	460	D 60	22,0	1783	35,8	0,82	S1
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Eff class IE3				50Hz : IE3 - 93,3(100%) - 94,1(75%) - 94,1(50%) 60Hz : IE3 - 93,8(100%)																																																						
Resistance				Insulation resistance at				Overload																																																		
Line				Ambient: 22,4 °C				R > 2000 Mohm 1000 V																																																		
U ₁ - V ₁				0,1964 Ω				Volt. 130 % 60s																																																		
U ₁ - W ₁				0,1952 Ω				Curr. 160 % 120s																																																		
V ₁ - W ₁				0,1953 Ω				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		401,2 D	50	15,3	0,50		1500	0,05																																																		
Locked rotor test		80,7 D	50	41,8	1,80			0,31																																																		
Thermal test (100% load)	141,7	400 D	50	41,3	23,70	22,00	1482	0,83	93,00																																																	
Partial load points:																																																										
~75% load	105,8	400 D	50	32,4	17,60	16,50	1489	0,79	93,60																																																	
~50% load	70,3	400 D	50	24,5	11,80	11,00	1493	0,69	93,30																																																	
~25% load	35,1	400 D	50	18,2	6,10	5,50	1498	0,48	90,40																																																	
Temperature rise at rated load.			[°C]	[K]	Method		Measurement method																																																			
Stator winding :				62,8	1		1 Resistance																																																			
Frame :			64		2		2 Thermometer																																																			
Bearing D-end :			67		2		3 Thermocouples																																																			
Ambient Temperature :			25		2																																																					
<p>These tests have been carried out on motor no. 3GV13 11256351 001 , on date 2013-10-02 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																																																					
Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden						Telephone +46 (0)21 32 90 00																																																				
						Telefax +46 (0)21 32 90 22																																																				

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