



Type Test Report				Date of issue: 4.11.2015																																	
Customer ref.:				Serial No.:																																	
				Motor Type: M3AA 112 MB 6																																	
				Product Code: 3GAA113320-ASE																																	
Rating:		<table border="1"> <thead> <tr> <th>V</th> <th>Hz</th> <th>kW</th> <th>r/min</th> <th>A</th> <th><math>\eta</math> [%]</th> <th>Duty</th> </tr> </thead> <tbody> <tr> <td>400</td> <td>Y 50</td> <td>2,20</td> <td>955</td> <td>5,30</td> <td>0,68</td> <td>S1</td> </tr> <tr> <td>230</td> <td>D 50</td> <td>2,20</td> <td>955</td> <td>9,22</td> <td>0,72</td> <td>S1</td> </tr> <tr> <td>460</td> <td>Y 60</td> <td>2,20</td> <td>1160</td> <td>5,00</td> <td>0,65</td> <td>S1</td> </tr> </tbody> </table>								V	Hz	kW	r/min	A	$\eta$ [%]	Duty	400	Y 50	2,20	955	5,30	0,68	S1	230	D 50	2,20	955	9,22	0,72	S1	460	Y 60	2,20	1160	5,00	0,65	S1
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400	Y 50	2,20	955	5,30	0,68	S1																															
230	D 50	2,20	955	9,22	0,72	S1																															
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3~Motor																																					
Insul.cl.F																																					
IP55																																					
Eff class IE2		50Hz : IE2 - 81,9%(100%) - 81,8%(75%) - 79,2%(50%) 60Hz : IE1 - 84,4%(100%)																																			
Resistance				Insulation resistans at 26 °C			Overload																														
Line				R>2000Mohm			1000V		Current 150 % 120s																												
U <sub>1</sub> - V <sub>1</sub>				3,8304 Ω					Torque 160 % 15s																												
U <sub>1</sub> - W <sub>1</sub>				3,8265 Ω					Speed 120 % 120s																												
V <sub>1</sub> - W <sub>1</sub>				3,8255 Ω																																	
				High-voltage test winding			2400V 60s																														
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1[kW]	Output P2[kW]	n[r/min]	cos ρ	η[%]																												
No load test		400 Y 50	50	4,2	0,23		955	0,08																													
Locked rotor test		84 Y 50	50	5,3	0,37		0	0,48																													
Thermal test (100% load)	22,0	400 Y 50	50	5,8	2,68	2,21	959	0,67	82,30																												
Partial load points:																																					
~75% load	16,1	400 Y 50	50	5,1	2,00	1,64	971	0,57	81,90																												
~50% load	10,3	400 Y 50	50	4,5	1,35	1,06	981	0,43	78,60																												
~25% load	5,2	400 Y 50	50	4,2	0,79	0,54	990	0,27	67,80																												
Temperature rise at rated load.				°C	[K]	Method	Measurement method																														
Stator winding <sup>+</sup> :				52,8	3		1 Resistance																														
Frame :				29,2	3		2 Thermometer																														
Bearing D-end :				29,5	3		3 Thermocouples																														
Ambient Temperature :				25	3																																
<p>These tests have been carried out on motor no. 3GE12852075123, on date 2013-06-10 which is identical in electrical design with the above.</p> <p>Manufactured in accordance with rules of IEC 60034-1 and IEC 60034-2-1.            PLL determined from residual loss.</p> <p>On behalf of customer</p> <p>On behalf of manufacturer                      Date of test</p> <p>Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden</p> <p style="text-align: right;">Telephone +46 (0)21 32 90 00            Telefax +46 (0)21 32 90 22</p>																																					

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