



Type Test Report				Date of issue: 1.9.2015																																																												
Customer:				Serial No.:																																																												
Customer ref.:				Type: M3AA 225SMA 6 Product Code: 3GAA253210-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</td> <td>50</td> <td>37,0</td> <td>991</td> <td>39,4</td> <td>0,83</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D</td> <td>50</td> <td>37,0</td> <td>991</td> <td>68,0</td> <td>0,83</td> <td>S1</td> </tr> <tr> <td>660</td> <td>Y</td> <td>50</td> <td>37,0</td> <td>990</td> <td>41,0</td> <td>0,84</td> <td>S1</td> </tr> <tr> <td>380</td> <td>D</td> <td>50</td> <td>37,0</td> <td>990</td> <td>71,1</td> <td>0,84</td> <td>S1</td> </tr> <tr> <td>415</td> <td>D</td> <td>50</td> <td>37,0</td> <td>992</td> <td>66,3</td> <td>0,82</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D</td> <td>60</td> <td>37,0</td> <td>1192</td> <td>59,9</td> <td>0,82</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	690	Y	50	37,0	991	39,4	0,83	S1	400	D	50	37,0	991	68,0	0,83	S1	660	Y	50	37,0	990	41,0	0,84	S1	380	D	50	37,0	990	71,1	0,84	S1	415	D	50	37,0	992	66,3	0,82	S1	460	D	60	37,0	1192	59,9	0,82	S1
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3-Motor				50Hz : IE3 - 94,4(100%) - 94,9(75%) - 94,7(50%)																																																												
Insul.cl.F				60Hz : IE3 - 94,5(100%)																																																												
IP55																																																																
Eff class IE3																																																																
Resistance				Insulation resistance at				Overload																																																								
Line				R > 2000 Mohm 1000 V				Volt. 130 % 60s																																																								
U ₁ - V ₁				Ambient: 23,3 °C				Curr. 160 % 120s																																																								
U ₁ - W ₁				0,1029 Ω				Speed 120 % 120s																																																								
V ₁ - W ₁				0,1028 Ω																																																												
				0,1026 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		399,6 D	50	28,5	0,70		1000	0,03																																																								
Locked rotor test		78 D	50	75,8	3,30			0,32																																																								
Thermal test (100% load)	356,6	400 D	50	70,1	39,20	37,00	991	0,81	94,30																																																							
Partial load points:																																																																
~75% load	266,7	400 D	50	55,6	29,30	27,75	994	0,76	94,80																																																							
~50% load	177,4	400 D	50	42,9	19,60	18,50	996	0,66	94,60																																																							
~25% load	88,5	400 D	50	33,2	10,00	9,25	998	0,44	92,30																																																							
Temperature rise at rated load.			[°C]	[K]	Method		Measurement method																																																									
Stator winding :			46	50,8	1		1 Resistance																																																									
Frame :			58		2		2 Thermometer																																																									
Bearing D-end :			24		2		3 Thermocouples																																																									
Ambient Temperature :																																																																
These tests have been carried out on motor no. 3GV13 11256197 001, on date 2013-09-30 which is identical in electrical design with the above.																																																																
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																																																											
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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