



Type Test Report				Date of issue: 18.5.2015																																													
Customer:				Serial No.:																																													
Customer ref.:				Type: M3AA 250SMA 2 Product Code: 3GAA251210-ADG																																													
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>55,0</td> <td>2967</td> <td>55,5</td> <td>0,88</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>55,0</td> <td>2967</td> <td>95,8</td> <td>0,88</td> <td>S1</td> </tr> <tr> <td>415</td> <td>D 50</td> <td>55,0</td> <td>2970</td> <td>93,2</td> <td>0,87</td> <td>S1</td> </tr> <tr> <td>440</td> <td>D 60</td> <td>55,0</td> <td>3568</td> <td>87,2</td> <td>0,88</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>55,0</td> <td>3571</td> <td>83,2</td> <td>0,88</td> <td>S1</td> </tr> </tbody> </table>				V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	55,0	2967	55,5	0,88	S1	400	D 50	55,0	2967	95,8	0,88	S1	415	D 50	55,0	2970	93,2	0,87	S1	440	D 60	55,0	3568	87,2	0,88	S1	460	D 60	55,0	3571	83,2	0,88	S1
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3-Motor Insul.cl.F IP55 Eff class IE2				50Hz : IE2 - 94,1(100%) - 94,4(75%) - 93,8(50%) 60Hz : IE3 - 93,6(100%)																																													
Resistance Line				Ambient: 22,0 °C U ₁ - V ₁ 0,05680 Ω U ₁ - W ₁ 0,05570 Ω V ₁ - W ₁ 0,05725 Ω		Insulation resistance at 22,9 °C R > 2000 Mohm 1000 V Overload Current 150 % 120s Torque 160 % 15s 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		400 D	50	23,5	1,34		3000	0,08																																									
Locked rotor test		70,8 D	50	91,2	3,50		0	0,31																																									
Thermal test (100% load)	176,8	400 D	50	95,7	58,24	55,00	2970	0,88	94,44																																								
Partial load points:																																																	
~75% load	134,2	400 D	50	74,4	44,27	41,85	2979	0,86	94,54																																								
~50% load	90,2	400 D	50	53,6	30,03	28,20	2987	0,81	93,91																																								
~25% load	45,6	400 D	50	35,4	15,78	14,31	2995	0,64	90,68																																								
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method																																										
Stator winding :				61,5	1	1 Resistance																																											
Frame :				26,7	2	2 Thermometer																																											
Bearing D-end :				52,7	2	3 Thermocouples																																											
Ambient Temperature :				23	2																																												
These tests have been carried out on motor no. 3GV110758763007, on date 2012-01-04 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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