



Type Test Report				Date of issue: 2015-03-16																															
Customer:				Serial No.: 3G1T12010000011684																															
Customer ref.:				Type: M1AA 250 SMA 2 Product Code: 3GAA251061-_DA																															
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>2955</td> <td>55.5</td> <td>0,90</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>55.0</td> <td>2955</td> <td>96.2</td> <td>0,90</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>55.0</td> <td>3545</td> <td>83.2</td> <td>0,90</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	55.0	2955	55.5	0,90	S1	400	D 50	55.0	2955	96.2	0,90	S1	460	D 60	55.0	3545	83.2	0,90	S1
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3~Motor																																			
Insul.cl.F																																			
IP55																																			
Eff class IE1		50Hz : IE1-92.1(100%)-91.8(75%)-90.3(50%) 60Hz :																																	
Resistance		Ambient: 25 °C		Insulation resistance at 25 °C		Overload																													
Line				R > 2000 Mohm 1000 V		Current 150% 120s																													
U ₁ - V ₁		0,12400 Ω				Torque 160% 15s																													
U ₁ - W ₁		0,12400 Ω				Speed 120% 120s																													
V ₁ - W ₁		0,12300 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]	η[r/min]	cos φ	η [%]																										
No load test		400 D	50	26,57	2,15		3000	0,12																											
Locked rotor test		95 D	50	56,0	3,04		0	0,33																											
Thermal test (100% load)	177,7	400 D	50	96,17	59,70	54,87	2952	0,90	92,01																										
Partial load points:																																			
~75% load	133,3	400 D	50	74,10	45,37	41,33	2965	0,88	91,80																										
~50% load	88,9	400 D	50	54,53	30,56	27,67	2977	0,81	90,29																										
~25% load	44,4	400 D	50	36,47	16,08	13,88	2988	0,64	85,86																										
Temperature rise at rated load.		[°C]		[K]		Method		Measurement method																											
Stator winding :		99,0		3				1 Resistance																											
Frame :								2 Thermometer																											
Bearing D-end :								3 Thermocouples																											
Ambient Temperature :		25		3																															
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		2012-01-03																															

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