



Type Test Report				Date of issue: 2015-03-16																															
Customer:				Serial No.: 3G1T09030000010540																															
Customer ref.:				Type: M1AA 225 SMA 4 Product Code: 3GAA222061-_SA																															
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>230</td> <td>D 50</td> <td>37.0</td> <td>1470</td> <td>119.0</td> <td>0,85</td> <td>S1</td> </tr> <tr> <td>400</td> <td>Y 50</td> <td>37.0</td> <td>1470</td> <td>69.2</td> <td>0,85</td> <td>S1</td> </tr> <tr> <td>460</td> <td>Y 60</td> <td>37.0</td> <td>1770</td> <td>60,2</td> <td>0,84</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	230	D 50	37.0	1470	119.0	0,85	S1	400	Y 50	37.0	1470	69.2	0,85	S1	460	Y 60	37.0	1770	60,2	0,84	S1
V	Hz	kW	r/min	A	cos φ	Duty																													
230	D 50	37.0	1470	119.0	0,85	S1																													
400	Y 50	37.0	1470	69.2	0,85	S1																													
460	Y 60	37.0	1770	60,2	0,84	S1																													
3~Motor																																			
Insul.cl.F																																			
IP55																																			
Eff class IE1		50Hz : IE1-91.2(100%)-90.8(75%)-89.3(50%) 60Hz :																																	
Resistance		Ambient: 25 °C Line U ₁ - V ₁ 0,21700 Ω U ₁ - W ₁ 0,21800 Ω V ₁ - W ₁ 0,21800 Ω				Insulation resistance at 25 °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]	η[r/min]	cos φ	η [%]																										
No load test		400 Y 50		26,06	1,57		1500	0,09																											
Locked rotor test		98,7 Y 50		38,7	2,38		0	0,36																											
Thermal test (100% load)	240,4	400 Y 50		67,30	40,07	37,26	1480	0,86	92,91																										
Partial load points:																																			
~75% load	180,3	400 Y 50		53,07	30,06	28,06	1486	0,82	92,60																										
~50% load	120,2	400 Y 50		40,69	20,49	18,75	1490	0,73	91,13																										
~25% load	60,1	400 Y 50		30,99	10,87	9,41	1495	0,51	85,92																										
Temperature rise at rated load.		<table border="1"> <thead> <tr> <th>°C</th> <th>K</th> <th>Method</th> </tr> </thead> <tbody> <tr> <td>Stator winding :</td> <td>74,0</td> <td>3</td> </tr> <tr> <td>Frame :</td> <td></td> <td></td> </tr> <tr> <td>Bearing D-end :</td> <td></td> <td></td> </tr> <tr> <td>Ambient Temperature :</td> <td>25</td> <td>3</td> </tr> </tbody> </table>				°C	K	Method	Stator winding :	74,0	3	Frame :			Bearing D-end :			Ambient Temperature :	25	3	Measurement method 1 Resistance 2 Thermometer 3 Thermocouples														
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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		2009-01-15																															

Computer print-out valid without signature.