



Type Test Report				Date of issue: 1.9.2015																																																						
Customer:				Serial No.:																																																						
Customer ref.:				Type: M3AA 225SMA 2 Product Code: 3GAA251210-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 50</td> <td>55,0</td> <td>2975</td> <td>54,3</td> <td>0,89</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>55,0</td> <td>2975</td> <td>93,6</td> <td>0,89</td> <td>S1</td> </tr> <tr> <td>660</td> <td>Y 50</td> <td>55,0</td> <td>2973</td> <td>56,4</td> <td>0,90</td> <td>S1</td> </tr> <tr> <td>380</td> <td>D 50</td> <td>55,0</td> <td>2973</td> <td>97,9</td> <td>0,90</td> <td>S1</td> </tr> <tr> <td>415</td> <td>D 50</td> <td>55,0</td> <td>2977</td> <td>91,3</td> <td>0,88</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>55,0</td> <td>3578</td> <td>81,5</td> <td>0,89</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	55,0	2975	54,3	0,89	S1	400	D 50	55,0	2975	93,6	0,89	S1	660	Y 50	55,0	2973	56,4	0,90	S1	380	D 50	55,0	2973	97,9	0,90	S1	415	D 50	55,0	2977	91,3	0,88	S1	460	D 60	55,0	3578	81,5	0,89	S1
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Eff class IE3				50Hz : IE3 - 95,2(100%) - 95,4(75%) - 95,0(50%) 60Hz : IE3 - 94,4(100%)																																																						
Resistance				Insulation resistance at				Overload																																																		
Line				Ambient: 23,9 °C				R > 2000 Mohm 1000 V																																																		
U ₁ - V ₁				0,0430 Ω				Volt. 130 % 60s																																																		
U ₁ - W ₁				0,0429 Ω				Curr. 160 % 120s																																																		
V ₁ - W ₁				0,0428 Ω				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		399,9 D	50	25,0	1,20		3000	0,07																																																		
Locked rotor test		60,3 D	50	101,8	3,40			0,32																																																		
Thermal test (100% load)	176,5	400 D	50	94,2	57,50	55,00	2975	0,88	95,70																																																	
Partial load points:																																																										
~75% load	132,1	400 D	50	72,7	43,20	41,25	2982	0,86	95,60																																																	
~50% load	87,9	400 D	50	52,7	29,00	27,50	2989	0,79	94,80																																																	
~25% load	43,8	400 D	50	35,2	15,00	13,75	2995	0,61	91,60																																																	
Temperature rise at rated load.			[°C]	[K]	Method		Measurement method																																																			
Stator winding :			48,4	48,4	1		1 Resistance																																																			
Frame :			44		2		2 Thermometer																																																			
Bearing D-end :			67		2		3 Thermocouples																																																			
Ambient Temperature :			25		2																																																					
<p>These tests have been carried out on motor no. 3GV13 11256198 001, on date 2013-09-27 which is identical in electrical design with the above.</p> <p>Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p>																																																										
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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