



Type Test Report				Date of issue: 1.9.2015																																																						
Customer:				Serial No.:																																																						
Customer ref.:				Type: M3AA 225SMA 2 Product Code: 3GAA221210-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>45,0</td> <td>2972</td> <td>44,5</td> <td>0,89</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>45,0</td> <td>2972</td> <td>76,8</td> <td>0,89</td> <td>S1</td> </tr> <tr> <td>660</td> <td>Y 50</td> <td>45,0</td> <td>2968</td> <td>46,8</td> <td>0,89</td> <td>S1</td> </tr> <tr> <td>380</td> <td>D 50</td> <td>45,0</td> <td>2968</td> <td>81,2</td> <td>0,89</td> <td>S1</td> </tr> <tr> <td>415</td> <td>D 50</td> <td>45,0</td> <td>2974</td> <td>74,0</td> <td>0,89</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>45,0</td> <td>3575</td> <td>66,8</td> <td>0,89</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	45,0	2972	44,5	0,89	S1	400	D 50	45,0	2972	76,8	0,89	S1	660	Y 50	45,0	2968	46,8	0,89	S1	380	D 50	45,0	2968	81,2	0,89	S1	415	D 50	45,0	2974	74,0	0,89	S1	460	D 60	45,0	3575	66,8	0,89	S1
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Eff class IE3				50Hz : IE3 - 94,9(100%) - 95,1(75%) - 94,7(50%) 60Hz : IE3 - 94,4(100%)																																																						
Resistance				Insulation resistance at				Overload																																																		
Line				Ambient: 22,2 °C				R > 2000 Mohm 1000 V																																																		
U ₁ - V ₁				0,0541 Ω				Volt. 130 % 60s																																																		
U ₁ - W ₁				0,0540 Ω				Curr. 160 % 120s																																																		
V ₁ - W ₁				0,0540 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		398,6 D	50	17,5	1,10		3000	0,09																																																		
Locked rotor test		69,4 D	50	83,0	3,30			0,33																																																		
Thermal test (100% load)	144,7	400 D	50	77,0	47,60	45,00	2970	0,89	94,60																																																	
Partial load points:																																																										
~75% load	108,2	400 D	50	58,5	35,70	33,75	2978	0,88	94,60																																																	
~50% load	72,0	400 D	50	41,9	24,00	22,50	2986	0,83	93,90																																																	
~25% load	35,9	400 D	50	26,8	12,50	11,25	2993	0,67	90,40																																																	
Temperature rise at rated load.			[°C]	[K]	Method		Measurement method																																																			
Stator winding :			49,8	49,8	1		1 Resistance																																																			
Frame :			43		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 11256189 001 , on date 2013-10-07 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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