



<b>Type Test Report</b>				Date of issue: 1.9.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3AA 225SMA 8 Product Code: 3GAA224210-ADG					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	18,5	739	23,4	0,73	S1		
Insul.cl.F	400	D 50	18,5	739	40,1	0,73	S1		
IP55	415	D 50	18,5	740	39,1	0,72	S1		
	440	D 60	18,5	889	36,1	0,73	S1		
	460	D 60	18,5	890	35,0	0,72	S1		
Eff class IE3	50Hz : IE3 - 91,0(100%) - 92,0(75%) - 91,5(50%) 60Hz : IE4 - 91,9(100%)								
Resistance				Insulation resistance at 20,9 °C		Overload			
Line				R > 2000 Mohm 1000 V		Current 150 % 120s			
U <sub>1</sub> - V <sub>1</sub>				Ambient: 21,9 °C		Torque 160 % 15s			
U <sub>1</sub> - W <sub>1</sub>				0,29460 Ω		Speed 120 % 120s			
V <sub>1</sub> - W <sub>1</sub>				0,29320 Ω					
				0,29440 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]	n[r/min]	cos φ	η [%]
No load test		400,1 D	50	18,5	0,57		750	0,04	
Locked rotor test		108,6 D	50	39,9	2,32		0	0,31	
Thermal test ( 100% load )	239,2	400 D	50	40,0	20,25	18,50	738	0,73	91,35
Partial load points:									
~75% load	184,1	400 D	50	33,0	15,56	14,30	742	0,68	91,89
~50% load	124,5	400 D	50	26,3	10,60	9,71	745	0,58	91,62
~25% load	64,0	400 D	50	21,2	5,67	5,01	748	0,39	88,25
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
Stator winding :				53,4	1			1 Resistance	
Frame :				24,5	2			2 Thermometer	
Bearing D-end :				30,8	2			3 Thermocouples	
Ambient Temperature :				21	2				
<p>These tests have been carried out on motor no. 3GV1110887466001, on date 2012-02-14 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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