



<b>Type Test Report</b>				Date of issue: 1.9.2015							
Customer:				Serial No.:							
Customer ref.:				Type: M3AA 250SMA 8 Product Code: 3GAA254210-ADG							
Rating:											
				V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor				690	Y	50	30,0	742	38,4	0,71	S1
Insul.cl.F				400	D	50	30,0	742	66,0	0,71	S1
IP55				415	D	50	30,0	743	65,4	0,69	S1
				440	D	60	30,0	892	59,6	0,71	S1
Eff class IE3				460	D	60	30,0	893	57,8	0,70	S1
				50Hz : IE3 - 92,3(100%) - 92,8(75%) - 92,2(50%)							
				60Hz : IE3 - 92,8(100%)							
Resistance				Insulation resistance at 23 °C				Overload			
Line				R > 2000 Mohm 1000 V				Current 150 % 120s			
U <sub>1</sub> - V <sub>1</sub>				Ambient: 21,4 °C				Torque 160 % 15s			
U <sub>1</sub> - W <sub>1</sub>				0,15390 Ω				Speed 120 % 120s			
V <sub>1</sub> - W <sub>1</sub>				0,15380 Ω							
				0,15310 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		401,1 D	50	33,8	0,93		750	0,04			
Locked rotor test		107,2 D	50	72,6	4,77		0	0,35			
Thermal test ( 100% load )	386,2	400 D	50	65,7	32,31	30,00	742	0,71	92,28		
Partial load points:											
~75% load	292,6	400 D	50	54,4	24,62	22,80	744	0,65	92,62		
~50% load	195,1	400 D	50	44,3	16,58	15,25	746	0,54	92,00		
~25% load	100,8	400 D	50	37,2	8,94	7,90	749	0,35	88,36		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :				64,1	1			1 Resistance			
Frame :				31,6	2			2 Thermometer			
Bearing D-end :				40,4	2			3 Thermocouples			
Ambient Temperature :				23	2						
<p>These tests have been carried out on motor no. 3GV1110776950002, on date 2011-10-26 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											
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