



Type Test Report				Date of issue: 1.9.2015							
Customer:				Serial No.:							
Customer ref.:				Type: M3AA 250SMC 2 Product Code: 3GAA251230-ADG							
Rating:											
				V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor				690	Y	50	90,0	2971	88,7	0,89	S1
Insul.cl.F				400	D	50	90,0	2971	153,0	0,89	S1
IP55				415	D	50	90,0	2974	149,0	0,88	S1
				440	D	60	90,0	3572	139,0	0,89	S1
Eff class IE3				460	D	60	90,0	3575	133,0	0,89	S1
				50Hz : IE3 - 95,0(100%) - 95,3(75%) - 94,9(50%)							
				60Hz : IE2 - 94,8(100%)							
Resistance				Insulation resistance at 23,4 °C				Overload			
Line				R > 2000 Mohm 1000 V				Current 150 % 120s			
U ₁ - V ₁				Ambient: 22,2 °C				Torque 160 % 15s			
U ₁ - W ₁				0,02780 Ω				Speed 120 % 120s			
V ₁ - W ₁				0,02759 Ω							
				0,02778 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		400,4 D	50	37,5	1,54		3000	0,06			
Locked rotor test		70,1 D	50	173,2	7,61		0	0,36			
Thermal test (100% load)	289,4	400 D	50	152,6	94,29	90,00	2970	0,89	95,45		
Partial load points:											
~75% load	217,2	400 D	50	117,1	70,81	67,76	2979	0,87	95,70		
~50% load	145,7	400 D	50	83,6	47,78	45,59	2987	0,82	95,41		
~25% load	74,1	400 D	50	55,2	24,95	23,24	2994	0,65	93,16		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :				84,8	1			1 Resistance			
Frame :				23,0	2			2 Thermometer			
Bearing D-end :				70,1	2			3 Thermocouples			
Ambient Temperature :				23	2						
<p>These tests have been carried out on motor no. 3GV1110813105001, on date 2012-01-11 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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