



Type Test Report				Date of issue: 1.9.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3AA 250SMB 2 Product Code: 3GAA251220-ADG					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	75,0	2970	74,2	0,89	S1		
Insul.cl.F	400	D 50	75,0	2970	128,0	0,89	S1		
IP55	415	D 50	75,0	2973	125,0	0,88	S1		
	440	D 60	75,0	3572	115,0	0,90	S1		
	460	D 60	75,0	3575	111,0	0,89	S1		
Eff class IE2	50Hz : IE2 - 94,5(100%) - 94,8(75%) - 94,4(50%) 60Hz : IE3 - 94,4(100%)								
Resistance				Insulation resistance at 24,3 °C		Overload			
Line				R > 2000 Mohm 1000 V		Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U ₁ - V ₁				Ambient: 23,9 °C					
U ₁ - W ₁				0,03461 Ω					
V ₁ - W ₁				0,03543 Ω					
				0,03483 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	33,4	1,9		3000	0,08	
Locked rotor test		70,3 D	50	142,9	6,46		0	0,37	
Thermal test (100% load)	241,1	400 D	50	129,1	79,49	75,00	2970	0,89	94,35
Partial load points:									
~75% load	182,9	400 D	50	100,4	60,42	57,06	2979	0,87	94,45
~50% load	121,0	400 D	50	72,0	40,39	37,86	2987	0,81	93,75
~25% load	62,1	400 D	50	47,8	21,52	19,48	2994	0,65	90,52
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
Stator winding :				80,3		1		1 Resistance	
Frame :				35,8		2		2 Thermometer	
Bearing D-end :				52,6		2		3 Thermocouples	
Ambient Temperature :				24		2			
<p>These tests have been carried out on motor no. 3GV1010506470003, on date 2010-04-21 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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