



Type Test Report				Date of issue: 1.9.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3AA 250SMA 4 Product Code: 3GAA252210-ADG					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	55,0	1480	57,3	0,85	S1		
Insul.cl.F	400	D 50	55,0	1480	98,9	0,85	S1		
IP55	415	D 50	55,0	1481	96,3	0,84	S1		
	440	D 60	55,0	1781	89,7	0,85	S1		
	460	D 60	55,0	1782	86,3	0,84	S1		
Eff class IE2	50Hz : IE2 - 94,4(100%) - 94,9(75%) - 94,6(50%) 60Hz : IE2 - 94,5(100%)								
Resistance				Insulation resistance at 26 °C		Overload			
Line				R > 2000 Mohm 1000 V		Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U ₁ - V ₁				Ambient: 25,6 °C					
U ₁ - W ₁				0,06718 Ω					
V ₁ - W ₁				0,06603 Ω					
				0,06722 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		400,8 D	50	35,6	1,04		1500	0,04	
Locked rotor test		71,3 D	50	92,5	4,30		0	0,38	
Thermal test (100% load)	354,9	400 D	50	99,5	58,25	55,00	1480	0,84	94,42
Partial load points:									
~75% load	268,5	400 D	50	78,5	44,04	41,79	1486	0,81	94,85
~50% load	178,9	400 D	50	58,8	29,52	27,94	1491	0,72	94,66
~25% load	90,2	400 D	50	43,4	15,30	14,13	1496	0,51	92,34
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
Stator winding :				63,0	1			1 Resistance	
Frame :				24,0	2			2 Thermometer	
Bearing D-end :				41,9	2			3 Thermocouples	
Ambient Temperature :				26	2				
<p>These tests have been carried out on motor no. 08 729332 10001, on date 2009-06-03 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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