



Type Test Report				Date of issue: 1.9.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3AA 225SMC 4 Product Code: 3GAA222230-ADG					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	55,0	1478	57,6	0,85	S1		
Insul.cl.F	400	D 50	55,0	1478	99,3	0,85	S1		
IP55	415	D 50	55,0	1480	98,0	0,83	S1		
	440	D 60	55,0	1780	88,0	0,87	S1		
	460	D 60	55,0	1782	86,0	0,85	S1		
Eff class IE2	50Hz : IE2 - 94,0(100%) - 94,6(75%) - 94,4(50%) 60Hz : IE2 - 94,2(100%)								
Resistance				Insulation resistance at 26 °C		Overload			
Line Ambient: 25,8 °C				R > 2000 Mohm 1000 V		Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U ₁ - V ₁ 0,06480 Ω									
U ₁ - W ₁ 0,06477 Ω									
V ₁ - W ₁ 0,06478 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	35,7	1,14		1500	0,05	
Locked rotor test		72,5 D	50	90,2	4,20		0	0,37	
Thermal test (100% load)	355,4	400 D	50	100,1	58,47	55,00	1478	0,84	94,06
Partial load points:									
~75% load	268,3	400 D	50	78,8	44,13	41,70	1484	0,81	94,50
~50% load	178,5	400 D	50	58,9	29,54	27,85	1490	0,72	94,29
~25% load	89,6	400 D	50	43,4	15,29	14,03	1495	0,51	91,78
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
Stator winding :				66,4	1			1 Resistance	
Frame :				25,9	2			2 Thermometer	
Bearing D-end :				42,8	2			3 Thermocouples	
Ambient Temperature :				26	2				
<p>These tests have been carried out on motor no. 3GV1010615766001, on date 2011-08-31 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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