



<b>Type Test Report</b>				Date of issue: 1.9.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3AA 200MLA 2 Product Code: 3GAA201410-ADG					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	30,0	2956	29,9	0,90	S1		
Insul.cl.F	400	D 50	30,0	2956	51,6	0,90	S1		
IP55	415	D 50	30,0	2960	49,7	0,90	S1		
	440	D 60	30,0	3557	47,0	0,90	S1		
	460	D 60	30,0	3562	44,9	0,90	S1		
Eff class IE2	50Hz : IE2 - 93,1(100%) - 93,5(75%) - 92,8(50%) 60Hz : IE3 - 92,8(100%)								
Resistance				Insulation resistance at 21,8 °C		Overload			
Line	Ambient: 20,7 °C			R > 2000 Mohm 1000 V		Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U <sub>1</sub> - V <sub>1</sub>	0,13153 Ω								
U <sub>1</sub> - W <sub>1</sub>	0,12961 Ω								
V <sub>1</sub> - W <sub>1</sub>	0,12725 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		399 D	50	12,0	0,72		3000	0,09	
Locked rotor test		67 D	50	50,1	1,89		0	0,33	
Thermal test ( 100% load )	96,8	400 D	50	52,1	32,27	30,00	2959	0,89	92,96
Partial load points:									
~75% load	71,1	400 D	50	39,1	23,68	22,13	2971	0,87	93,45
~50% load	46,7	400 D	50	27,6	15,65	14,57	2982	0,82	93,12
~25% load	22,7	400 D	50	17,7	7,92	7,11	2991	0,65	89,81
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
Stator winding :				52,8	1			1 Resistance	
Frame :				16,6	2			2 Thermometer	
Bearing D-end :				23	2			3 Thermocouples	
Ambient Temperature :				22	2				
<p>These tests have been carried out on motor no. 3GV1110746640004, on date 2012-01-16 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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