



Type Test Report				Date of issue: 1.9.2015							
Customer:				Serial No.:							
Customer ref.:				Type: M3AA 200MLA 6 Product Code: 3GAA203410-ADG							
Rating:											
				V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor				690	Y	50	18,5	988	21,1	0,80	S1
Insul.cl.F				400	D	50	18,5	988	36,4	0,80	S1
IP55				415	D	50	18,5	989	35,9	0,78	S1
				440	D	60	18,5	1188	32,5	0,81	S1
Eff class IE2				460	D	60	18,5	1190	31,8	0,79	S1
				50Hz : IE2 - 91,6(100%) - 92,2(75%) - 91,7(50%)							
				60Hz : IE2 - 92,1(100%)							
Resistance				Insulation resistance at 20,8 °C				Overload			
Line				R > 2000 Mohm 1000 V				Current 150 % 120s			
U ₁ - V ₁				Ambient: 20,0 °C				Torque 160 % 15s			
U ₁ - W ₁				0,33330 Ω				Speed 120 % 120s			
V ₁ - W ₁				0,33170 Ω							
				0,33280 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		401,4 D	50	15,5	0,56		1000	0,05			
Locked rotor test		90,6 D	50	39,1	2,30		0	0,37			
Thermal test (100% load)	178,8	400 D	50	36,2	20,17	18,50	988	0,80	91,71		
Partial load points:											
~75% load	137,6	400 D	50	29,5	15,49	14,28	991	0,76	92,23		
~50% load	93,0	400 D	50	23,1	10,55	9,69	995	0,66	91,90		
~25% load	48,1	400 D	50	18,1	5,67	5,03	998	0,45	88,68		
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :				53,0	1			1 Resistance			
Frame :				28,5	2			2 Thermometer			
Bearing D-end :				31,3	2			3 Thermocouples			
Ambient Temperature :				21	2						
<p>These tests have been carried out on motor no. 3GV1110799287010, on date 2012-01-31 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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