



Type Test Report				Date of issue: 1.9.2015							
Customer:				Serial No.:							
Customer ref.:				Type: M3AA 200MLB 2 Product Code: 3GAA201420-BDG							
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor				690	Y 50	37,0	2959	36,8	0,90	S1	
Insul.cl.F				400	D 50	37,0	2959	63,5	0,90	S1	
IP55				415	D 50	37,0	2962	61,8	0,89	S1	
				440	D 60	37,0	3560	57,8	0,90	S1	
Eff class IE2				460	D 60	37,0	3564	55,8	0,89	S1	
				50Hz : IE2 - 93,4(100%) - 93,7(75%) - 92,9(50%) 60Hz : IE3 - 93,2(100%)							
Resistance				Insulation resistance at 23 °C				Overload			
Line				R > 2000 Mohm 1000 V				Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U ₁ - V ₁				Ambient: 21,8 °C				High-voltage test winding 2400 V 60 s			
U ₁ - W ₁				0,09155 Ω							
V ₁ - W ₁				0,09002 Ω							
				0,92890 Ω							
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		399,7 D	50	16,6	0,94		3000	0,08			
Locked rotor test		73,7 D	50	69,1	3,25		0	0,37			
Thermal test (100% load)	119,3	400 D	50	64,6	39,59	37,00	2961	0,88	93,46		
Partial load points:											
~75% load	92,4	400 D	50	51,3	30,80	28,70	2967	0,86	93,73		
~50% load	63,1	400 D	50	37,4	21,10	19,70	2979	0,81	93,34		
~25% load	33,5	400 D	50	24,9	11,57	10,49	2988	0,67	90,63		
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :				63,5	1			1 Resistance			
Frame :				23,0	2			2 Thermometer			
Bearing D-end :				38,9	2			3 Thermocouples			
Ambient Temperature :				23	2						
<p>These tests have been carried out on motor no. 3GV1110799607001, on date 2011-10-12 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											
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