



<b>Type Test Report</b>				Date of issue: 1.9.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3AA 200MLB 4 Product Code: 3GAA202420-ADG					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	37,0	1479	39,0	0,85	S1		
Insul.cl.F	400	D 50	37,0	1479	67,2	0,85	S1		
IP55	415	D 50	37,0	1481	65,4	0,84	S1		
	440	D 60	37,0	1780	60,1	0,86	S1		
	460	D 60	37,0	1783	58,6	0,84	S1		
Eff class IE2	50Hz : IE2 - 93,4(100%) - 94,4(75%) - 94,4(50%) 60Hz : IE2 - 93,9(100%)								
Resistance				Insulation resistance at 22,4 °C		Overload			
Line Ambient: 20,8 °C				R > 2000 Mohm 1000 V		Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U <sub>1</sub> - V <sub>1</sub> U <sub>1</sub> - W <sub>1</sub> V <sub>1</sub> - W <sub>1</sub>				0,12290 Ω 0,12230 Ω 0,12290 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 D	50	22,3	0,67		1500	0,04	
Locked rotor test		91 D	50	72,8	4,07			0,35	
Thermal test ( 100% load )	239,1	400 D	50	67,5	39,50	37,00	1478	0,84	93,66
Partial load points:									
~75% load	182,6	400 D	50	53,4	30,10	28,37	1484	0,81	94,27
~50% load	121,6	400 D	50	39,6	20,12	18,98	1490	0,73	94,34
~25% load	62,0	400 D	50	28,6	10,50	9,70	1495	0,53	92,35
Temperature rise at rated load.				°C	K	Method		Measurement method	
Stator winding :				74,3	1			1 Resistance	
Frame :				32,0	2			2 Thermometer	
Bearing D-end :				42,1	2			3 Thermocouples	
Ambient Temperature :				22	2				
<p>These tests have been carried out on motor no. 3GV11107947718001, on date 2012-01-27 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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