



Type Test Report				Date of issue: 1.9.2015							
Customer:				Serial No.:							
Customer ref.:				Type: M3AA 200MLD 2 Product Code: 3GAA201440-ADG							
Rating:											
				V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor				690	Y	50	55,0	2953	55,1	0,89	S1
Insul.cl.F				400	D	50	55,0	2953	95,0	0,89	S1
IP55				415	D	50	55,0	2957	92,5	0,88	S1
				440	D	60	55,0	3555	85,3	0,90	S1
Eff class IE2				460	D	60	55,0	3560	82,2	0,89	S1
				50Hz : IE2 - 93,8(100%) - 94,4(75%) - 94,3(50%) 60Hz : IE3 - 94,0(100%)							
Resistance				Insulation resistance at 21,6 °C				Overload			
Line				R > 2000 Mohm 1000 V				Current 150 % 120s			
U ₁ - V ₁				Ambient: 19,4 °C				Torque 160 % 15s			
U ₁ - W ₁				0,06028 Ω				Speed 120 % 120s			
V ₁ - W ₁				0,06012 Ω							
				0,06011 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	23,7	1,15		3000	0,07			
Locked rotor test		70 D	50	99,8	4,26		0	0,35			
Thermal test (100% load)	177,9	400 D	50	95,2	58,83	55,00	2952	0,89	93,49		
Partial load points:											
~75% load	129,6	400 D	50	71,3	42,81	40,26	2967	0,87	94,06		
~50% load	92,2	400 D	50	53,7	30,59	28,73	2977	0,82	93,93		
~25% load	44,5	400 D	50	34,2	15,26	13,93	2989	0,64	91,28		
Temperature rise at rated load.				°C	K	Method		Measurement method			
Stator winding :				88,6	1			1 Resistance			
Frame :				35,1	2			2 Thermometer			
Bearing D-end :				56,5	2			3 Thermocouples			
Ambient Temperature :				22	2						
These tests have been carried out on motor no. 08 397995 10001, on date 2009-01-30 which is identical in electrical design with the above.											
Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.											
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											

Computer print-out valid without signature.