



Type Test Report				Date of issue: 1.9.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3AA 200MLC 4 Product Code: 3GAA202430-ADG					
Rating:									
		V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor		690	Y 50	45,0	1479	48,5	0,83	S1	
Insul.cl.F		400	D 50	45,0	1479	83,6	0,83	S1	
IP55		415	D 50	45,0	1481	83,5	0,80	S1	
		440	D 60	45,0	1781	74,6	0,84	S1	
Eff class IE2		460	D 60	45,0	1783	72,0	0,83	S1	
50Hz : IE2 - 93,6(100%) - 94,4(75%) - 94,2(50%)				60Hz : IE2 - 94,2(100%)					
Resistance				Insulation resistance at 24 °C				Overload	
Line		Ambient: 22,8 °C		R > 2000 Mohm		1000 V		Current 150 % 120s	
U ₁ - V ₁		0,09184 Ω						Torque 160 % 15s	
U ₁ - W ₁		0,09178 Ω						Speed 120 % 120s	
V ₁ - W ₁		0,09191 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		400,6 D	50	31,0	0,94		1500	0,04	
Locked rotor test		89,3 D	50	93,3	5,17		0	0,36	
Thermal test (100% load)	290,5	400 D	50	83,4	48,01	45,00	1479	0,83	93,72
Partial load points:									
~75% load	221,5	400 D	50	66,6	44,13	34,45	1485	0,79	94,20
~50% load	148,7	400 D	50	50,8	29,54	23,20	1490	0,70	94,07
~25% load	76,1	400 D	50	37,9	15,29	11,92	1496	0,49	91,76
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
Stator winding :				74,6		1		1 Resistance	
Frame :				30,8		2		2 Thermometer	
Bearing D-end :				44,1		2		3 Thermocouples	
Ambient Temperature :				24		2			
<p>These tests have been carried out on motor no. 3GV1010777568001, on date 2011-09-26 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			
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