



Type Test Report				Date of issue: 1.9.2015						
Customer:				Serial No.:						
Customer ref.:				Type: M3AA 200MLC 2 Product Code: 3GAA201430-ADG						
Rating:				V	Hz	kW	r/min	A	cos φ	Duty
3-Motor				690	Y 50	45,0	2957	45,9	0,88	S1
Insul.cl.F				400	D 50	45,0	2957	79,1	0,88	S1
IP55				415	D 50	45,0	2960	77,0	0,87	S1
				440	D 60	45,0	3559	71,1	0,09	S1
Eff class IE2				460	D 60	45,0	3563	68,7	0,88	S1
50Hz : IE2 - 93,0(100%) - 93,5(75%) - 93,2(50%)										
60Hz : IE2 - 93,3(100%)										
Resistance				Insulation resistance at 22 °C				Overload		
Line Ambient: 20,7 °C				R > 2000 Mohm 1000 V				Current 150 % 120s		
U ₁ - V ₁ 0,07515 Ω								Torque 160 % 15s		
U ₁ - W ₁ 0,07496 Ω								Speed 120 % 120s		
V ₁ - W ₁ 0,07493 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 D	50	21,4	1,12		3000	0,08		
Locked rotor test		62 D	50	77,1	2,71		0	0,33		
Thermal test (100% load)	145,3	400 D	50	79,1	48,24	45,00	2958	0,88	93,29	
Partial load points:										
~75% load	107,8	400 D	50	60,5	35,81	33,51	2970	0,85	93,59	
~50% load	71,0	400 D	50	43,4	23,78	22,15	2981	0,79	93,15	
~25% load	35,0	400 D	50	29,2	12,23	10,97	2991	0,60	89,71	
Temperature rise at rated load.				°C	[K]	Method		Measurement method		
Stator winding :				78,6		1		1 Resistance		
Frame :				30,3		2		2 Thermometer		
Bearing D-end :				43,9		2		3 Thermocouples		
Ambient Temperature :				22		2				
<p>These tests have been carried out on motor no. 3GV1110786725005, on date 2011-10-24 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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