



Type Test Report				Date of issue: 1.9.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3AA 160MLA 6 Product Code: 3GAA163410-ADG					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	7,5	975	8,9	0,79	S1		
Insul.cl.F	400	D 50	7,5	975	15,4	0,79	S1		
IP55	415	D 50	7,5	978	15,2	0,77	S1		
	440	D 60	7,5	1177	13,9	0,79	S1		
	460	D 60	7,5	1179	13,6	0,77	S1		
Eff class IE2	50Hz : IE2 - 88,5(100%) - 89,9(75%) - 89,7(50%) 60Hz : IE2 - 89,5(100%)								
Resistance				Insulation resistance at 22 °C		Overload			
Line	Ambient: 21,5 °C			R > 2000 Mohm 1000 V		Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U ₁ - V ₁	0,9155 Ω								
U ₁ - W ₁	0,9143 Ω								
V ₁ - W ₁	0,9150 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	7,5	0,33		1000	0,06	
Locked rotor test		88 D	50	15,0	0,70		0	0,31	
Thermal test (100% load)	73,5	400 D	50	15,7	8,50	7,50	975	0,78	88,21
Partial load points:									
~75% load	55,4	400 D	50	12,8	6,41	5,70	982	0,72	88,93
~50% load	37,6	400 D	50	10,3	4,39	3,89	988	0,61	88,51
~25% load	19,4	400 D	50	8,4	2,40	2,02	994	0,41	84,19
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
Stator winding :				62,9	1			1 Resistance	
Frame :				24,5	2			2 Thermometer	
Bearing D-end :				28,4	2			3 Thermocouples	
Ambient Temperature :				22	2				
<p>These tests have been carried out on motor no. 3GV1110803662009, on date 2011-11-11 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				

Computer print-out valid without signature.