



Type Test Report				Date of issue: 1.9.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3AA 225SMA 4 Product Code: 3GAA222210-ADG					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	37,0	1479	39,4	0,84	S1		
Insul.cl.F	400	D 50	37,0	1479	68,0	0,84	S1		
IP55	415	D 50	37,0	1481	68,0	0,81	S1		
	440	D 60	37,0	1780	60,4	0,86	S1		
	460	D 60	37,0	1782	59,0	0,84	S1		
Eff class IE2	50Hz : IE2 - 93,4(100%) - 93,9(75%) - 93,4(50%) 60Hz : IE2 - 93,4(100%)								
Resistance				Insulation resistance at 23 °C		Overload			
Line	Ambient: 21,6 °C			R > 2000 Mohm 1000 V		Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U ₁ - V ₁	0,10820 Ω								
U ₁ - W ₁	0,10820 Ω								
V ₁ - W ₁	0,10830 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	25,9	0,84		1500	0,05	
Locked rotor test		71,4 D	50	61,6	2,77		0	0,36	
Thermal test (100% load)	238,7	400 D	50	68,1	39,51	37,00	1480	0,84	93,65
Partial load points:									
~75% load	180,4	400 D	50	54,1	29,85	28,07	1486	0,80	94,03
~50% load	120,3	400 D	50	41,0	20,05	18,78	1491	0,71	93,68
~25% load	62,2	400 D	50	30,8	10,72	9,75	1496	0,50	90,95
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
Stator winding :				60,3	1			1 Resistance	
Frame :				21,6	2			2 Thermometer	
Bearing D-end :				29,4	2			3 Thermocouples	
Ambient Temperature :				23	2				
<p>These tests have been carried out on motor no. 3GV1110779809004, on date 2011-10-11 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.