



<b>Type Test Report</b>				Date of issue: 1.9.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3AA 225SMB 2 Product Code: 3GAA221220-ADG					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	55,0	2961	55,7	0,88	S1		
Insul.cl.F	400	D 50	55,0	2961	96,0	0,88	S1		
IP55	415	D 50	55,0	2965	93,4	0,87	S1		
	440	D 60	55,0	3563	86,5	0,89	S1		
	460	D 60	55,0	3567	82,6	0,89	S1		
Eff class IE2	50Hz : IE2 - 93,9(100%) - 94,3(75%) - 93,6(50%) 60Hz : IE3 - 93,7(100%)								
Resistance			Insulation resistance at 21,9 °C			Overload			
Line			R > 2000 Mohm 1000 V			Current 150 % 120s			
U <sub>1</sub> - V <sub>1</sub>			Ambient: 19,3 °C			Torque 160 % 15s			
U <sub>1</sub> - W <sub>1</sub>			0,05480 Ω			Speed 120 % 120s			
V <sub>1</sub> - W <sub>1</sub>			0,05381 Ω						
			0,05531 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	22,5	1,39		3000	0,09	
Locked rotor test		71,2 D	50	85,9	4,04		0	0,38	
Thermal test ( 100% load )	177,2	400 D	50	95,8	58,47	55,00	2964	0,88	94,06
Partial load points:									
~75% load	133,5	400 D	50	73,4	44,14	41,59	2974	0,87	94,22
~50% load	88,8	400 D	50	52,2	29,65	27,75	2984	0,82	93,60
~25% load	45,8	400 D	50	34,1	15,90	14,37	2993	0,67	90,38
Temperature rise at rated load.			°C	[K]	Method		Measurement method		
Stator winding :			65,1	1	1 Resistance				
Frame :			29,3	2	2 Thermometer				
Bearing D-end :			50,6	2	3 Thermocouples				
Ambient Temperature :			22	2					
<p>These tests have been carried out on motor no. 3GV1110846524001, on date 2012-02-06 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				

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