



Type Test Report				Date of issue: 1.9.2015							
Customer:				Serial No.:							
Customer ref.:				Type: M3AA 225SMA 2 Product Code: 3GAA221210-ADG							
Rating:				V	Hz	kW	r/min	A	cos φ	Duty	
3-Motor				690	Y 50	45,0	2961	45,7	0,88	S1	
Insul.cl.F				400	D 50	45,0	2961	78,8	0,88	S1	
IP55				415	D 50	45,0	2964	76,7	0,87	S1	
				440	D 60	45,0	3562	71,1	0,89	S1	
Eff class IE2				460	D 60	45,0	3566	68,6	0,88	S1	
				50Hz : IE2 - 93,6(100%) - 93,9(75%) - 93,1(50%) 60Hz : IE2 - 93,3(100%)							
Resistance				Insulation resistance at 24 °C				Overload			
Line				R > 2000 Mohm 1000 V				Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U ₁ - V ₁				Ambient: 23,0 °C				High-voltage test winding 2400 V 60 s			
U ₁ - W ₁				0,07736 Ω							
V ₁ - W ₁				0,07719 Ω							
				0,07717 Ω							
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		401,6 D	50	17,6	1,19		3000	0,1			
Locked rotor test		88,8 D	50	85,1	4,95		0	0,38			
Thermal test (100% load)	145,1	400 D	50	78,9	48,10	45,00	2961	0,88	93,56		
Partial load points:											
~75% load	111,3	400 D	50	61,1	36,93	34,65	2972	0,87	93,83		
~50% load	74,4	400 D	50	43,2	24,90	23,24	2983	0,83	93,34		
~25% load	38,3	400 D	50	27,8	13,30	11,99	2992	0,69	90,17		
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :				71,5	1			1 Resistance			
Frame :				23,9	2			2 Thermometer			
Bearing D-end :				49,2	2			3 Thermocouples			
Ambient Temperature :				24	2						
<p>These tests have been carried out on motor no. 3GV1110788433005, on date 2011-11-24 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> <p>On behalf of customer</p> <p>On behalf of manufacturer Date of test</p> <p>Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden</p> <p>Telephone +46 (0)21 32 90 00 Telefax +46 (0)21 32 90 22</p>											

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