



<b>Type Test Report</b>				Date of issue: 1.9.2015					
Customer:				Serial No.:					
Customer ref.:				Type: M3AA 225SMD 4 Product Code: 3GAA222240-ADG					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	64,0	1480	66,7	0,85	S1		
Insul.cl.F	400	D 50	64,0	1480	115,0	0,85	S1		
IP55	415	D 50	64,0	1481	116,0	0,81	S1		
	440	D 60	64,0	1781	102,0	0,87	S1		
	460	D 60	64,0	1783	100,0	0,85	S1		
Eff class IE2	50Hz : IE2 - 94,2(100%) - 94,6(75%) - 94,1(50%) 60Hz : IE2 - 94,3(100%)								
Resistance				Insulation resistance at 25 °C		Overload			
Line	Ambient: 23,4 °C			R > 2000 Mohm 1000 V		Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U <sub>1</sub> - V <sub>1</sub>	0,04880 Ω								
U <sub>1</sub> - W <sub>1</sub>	0,04873 Ω								
V <sub>1</sub> - W <sub>1</sub>	0,04792 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		400,9 D	50	48,0	1,54		1500	0,05	
Locked rotor test		70,3 D	50	113,7	5,11		0	0,37	
Thermal test ( 100% load )	413,5	400 D	50	117,6	67,93	64,00	1478	0,83	94,21
Partial load points:									
~75% load	313,6	400 D	50	93,9	51,61	48,73	1484	0,79	94,43
~50% load	208,7	400 D	50	71,7	34,68	32,57	1490	0,70	93,91
~25% load	106,5	400 D	50	54,9	18,34	16,67	1495	0,48	90,89
Temperature rise at rated load.				°C	[K]	Method		Measurement method	
Stator winding :				71,4	1			1 Resistance	
Frame :				25,6	2			2 Thermometer	
Bearing D-end :				41,6	2			3 Thermocouples	
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 3GV1110813810001, on date 2011-10-20 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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