



Type Test Report				Date of issue: 4.11.2015						
Customer ref.:				Serial No.:						
				Motor Type: M3AA 112 MB 2						
				Product Code: 3GAA111320-ASE						
Rating:		V	Hz	kW	r/min	A	η [%]	Duty		
3-Motor		400	Y 50	4,00	2885	7,60	0,88	S1		
Insul.cl.F		230	D 50	4,00	2885	13,1	0,88	S1		
IP55		460	Y 60	4,00	3490	6,20	0,91	S1		
Eff class IE2		50Hz : IE2 - 86,1%(100%) - 87,0%(75%) - 88,0%(50%) 60Hz : IE2 - 87,6%(100%)								
Resistance				Isulation resistans at 26 °C			Overload			
Line Ambient: 20,0 °C				R>2000Mohm 1000V			Current 150 % 120s Torque 160 % 15s Speed 120 % 120s			
U ₁ - V ₁ 2,5284 Ω				High-voltage test winding 2400V 60s						
U ₁ - W ₁ 2,5137 Ω										
V ₁ - W ₁ 2,5226 Ω										
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1[kW]	Output P2[kW]	n[r/min]	cos ρ	η [%]	
No load test		400 Y	50	2,1	0,19		2885	0,13		
Locked rotor test		67 Y	50	7,6	0,50		0	0,56		
Thermal test (100% load)	13,2	400 Y	50	7,4	4,74	3,97	2879	0,92	83,80	
Partial load points:										
~75% load	10,1	400 Y	50	5,8	3,64	3,08	2908	0,90	84,80	
~50% load	7,0	400 Y	50	4,4	2,54	2,16	2940	0,85	85,00	
~25% load	3,4	400 Y	50	2,7	1,33	1,06	2971	0,68	80,20	
Temperature rise at rated load.				°C	K	Method	Measurement method			
Stator winding ⁺ :				71,6	3		1 Resistance			
Frame :				28,4	3		2 Thermometer			
Bearing D-end :				36,1	3		3 Thermocouples			
Ambient Temperature :				25	3					
These tests have been carried out on motor no. 3GE13607000230, on date 2013-06-10 which is identical in electrical design with the above.										
Manufactured in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.										
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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