



Type Test Report				Date of issue: 4.11.2015						
Customer ref.:				Serial No.:						
				Motor Type: M3AA 112 MB 4						
				Product Code: 3GAA112320-ASE						
Rating:		V	Hz	kW	r/min	A	η [%]	Duty		
3-Motor		400	Y 50	4,00	1445	8,80	0,75	S1		
Insul.cl.F		230	D 50	4,00	1445	15,30	0,75	S1		
IP55		460	Y 60	4,00	1745	7,40	0,77	S1		
Eff class IE2		50Hz : IE2 - 86,7%(100%) - 86,5%(75%) - 85,2%(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		1,9777 Ω		High-voltage test winding 2400V 60s						
U ₁ - W ₁		1,9689 Ω								
V ₁ - W ₁		1,9698 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	4,5	0,27		1445	0,09		
Locked rotor test		71 Y	50	8,8	0,54		0	0,50		
Thermal test (100% load)	26,0	400 Y	50	8,4	4,59	3,94	1446	0,81	85,90	
Partial load points:										
~75% load	20,3	400 Y	50	7,2	3,60	3,10	1459	0,75	86,10	
~50% load	13,5	400 Y	50	5,9	2,46	2,09	1474	0,63	84,70	
~25% load	6,9	400 Y	50	5,0	1,38	1,08	1487	0,42	77,90	
Temperature rise at rated load.				°C	K	Method	Measurement method			
Stator winding ⁺ :				60,7	3		1 Resistance			
Frame :				31,3	3		2 Thermometer			
Bearing D-end :				34,2	3		3 Thermocouples			
Ambient Temperature :				25	3					
These tests have been carried out on motor no. 3GE12838062184, 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		

Computer print-out valid without signature.