



Type Test Report					Date of issue: 2015-03-16					
					Serial No.: 3G1T13230000014593					
Customer:					Type: M1AA 160 MLB 8 Product Code: 3GAA164062-_SA					
Customer ref.:										
Rating:		V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor		230	D 50	5.5	720	29.1	0,58	S1		
Insul.cl.F		400	Y 50	5.5	720	16.8	0,58	S1		
IP55		460	Y 60	5.5	870	15.3	0,55	S1		
Eff class IE1		50Hz : IE1-81.4(100%)-79.8(75%)-79.4(50%) 60Hz : IE1-82.1(100%)-80.4(75%)-80.1(50%)								
Resistance Line		Ambient: 25 °C			Insulation resistance at 25 °C R > 2000 Mohm 1000 V			Overload		
U ₁ - V ₁		1,99600 Ω						Current 150% 120s		
U ₁ - W ₁		1,99800 Ω						Torque 160% 15s		
V ₁ - W ₁		1,99860 Ω						Speed 120% 120s		
					High-voltage test winding 2400 V 60 s					
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	η[r/min]	cos φ	η [%]	
No load test		400 Y	50	13,03	0,60		750	0,07		
Locked rotor test		102 Y	50	17,0	1,59		0	0,53		
Thermal test (100% load)	72,2	400 Y	50	17,10	6,55	5,51	728	0,55	84,52	
Partial load points:										
~75% load	54,2	400 Y	50	15,45	5,10	4,27	738	0,48	83,67	
~50% load	36,1	400 Y	50	14,10	3,59	2,83	740	0,35	82,62	
~25% load	18,1	400 Y	50	13,55	2,74	2,04	745	0,29	74,50	
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method			
Stator winding :		65,0		3				1 Resistance		
Frame :								2 Thermometer		
Bearing D-end :								3 Thermocouples		
Ambient Temperature :		25		3						
Manufactured and tested 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		2013-06-06						

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