



Test Report				Date of issue: 5.12.2014					
				Serial No.:					
				Type: M2BAX 315MLB 6 IMB3/IM1001					
				Product Code: 3GBA313420-ADM					
Rating:									
		V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor		690	Y	50	132	995	141	0,82 S1	
Insul.cl.F		400	D	50	132	995	242	0,82 S1	
IP55		660	Y	50	132	994	144	0,84 S1	
		380	D	50	132	994	250	0,84 S1	
		440	D	60	132	1195	218	0,83 S1	
Eff class IE3		460	D	60	132	1196	211	0,82 S1	
50Hz: IE3-95,4%(100%)-95,5%(75%)-94,8%(50%)									
60Hz: IE3-95,8%(100%)									
Resistance				Insulation resistance at 43 °C		Overload			
Line		Ambient: 24 °C		17000 MΩ 1000 V		Torque 160% 15s			
U ₁ - V ₁		0,01862 Ω							
U ₁ - W ₁		0,01864 Ω							
V ₁ - W ₁		0,01862 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		399,9 D	50	87,1	2,22		1000	0,04	
Locked rotor test		77,7 D	50	239,6	7,95		0	0,25	
Thermal test (100% load)	1268,0	400,3 D	50	241,5	137,9	132,0	995	0,82	95,7
Partial load points:									
~75% load	954,0	400,3 D	50	190,3	103,3	99,0	996	0,78	95,8
~50% load	636,7	400,4 D	50	144,6	69,1	66,0	998	0,69	95,5
~25% load	319,5	400,4 D	50	108,8	35,5	33,0	999	0,47	93,0
Temperature rise at rated load.				°C	[K]	Method	Measurement method		
Stator winding :				52	1	1 Resistance			
Frame :				36	2	2 Thermometer			
Bearing D-end :				34	2	3 Thermocouples			
Rotor :				67	3				
Ambient Temperature :				25	2				
These tests have been carried out on motor no. 3GF13172077, on date 2013-08-23, which is identical in design with the above.									
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					
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211 Telefax +358 10 22 47372			

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