



Test Report				Date of issue: 5.12.2014							
				Serial No.:							
				Order No.:							
				Type: M2BAX 315SMD 2 IMB3/IM1001							
				Product Code: 3GBA311240-ADM							
Rating:											
				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				690	Y	50	160	2983	159	0,87	S1
Insul.cl.F				400	D	50	160	2983	275	0,87	S1
IP55				660	Y	50	160	2980	166	0,88	S1
				380	D	50	160	2980	289	0,88	S1
				440	D	60	160	3584	250	0,88	S1
Eff class IE3				460	D	60	160	3585	242	0,87	S1
				50Hz: IE3-95,6%(100%)-95,5%(75%)-95,0%(50%) 60Hz: IE3-95,4%(100%)							
Resistance				Insulation resistance at 77 °C				Overload			
Line				Ambient: 21 °C				5800 MΩ 1000 V			
U ₁ - V ₁				0,01181 Ω				Torque 160% 15s			
U ₁ - W ₁				0,01178 Ω				Speed 120% 120s			
V ₁ - W ₁				0,01179 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	71,3	3,16		3000	0,06			
Locked rotor test		64,3 D	50	273,2	8,38		0	0,28			
Thermal test (100% load)	512,2	400,8 D	50	276,7	167,2	160,0	2983	0,87	95,7		
Partial load points:											
~75% load	385,2	400,9 D	50	212,6	125,4	120,0	2988	0,85	95,7		
~50% load	254,8	401,1 D	50	153,5	84,2	80,0	2993	0,79	95,1		
~25% load	129,8	401,2 D	50	103,1	43,4	40,0	2997	0,61	92,1		
Temperature rise at rated load.				°C	[K]	Method	Measurement method				
Stator winding :				69	1		1 Resistance				
Frame :				39	2		2 Thermometer				
Bearing N-end :				6	2		3 Thermocouples				
Ambient Temperature :				25	2						
These tests have been carried out on motor no. 3GF13167851, on date 2013-07-11, 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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