



Test Report				Date of issue: 30.11.2015					
				Serial No.: 3G1P141700189					
				Order No.:					
				Type: M2BAX 225SMA 6 IMB3/IM1001					
				Product Code: 3GBA223210-ADD					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	30	988	34,9	0,77	S1		
Insul.cl.F	400	D 50	30	988	60,4	0,77	S1		
IP55	660	Y 50	30	988	20,1	0,80	S1		
	380	D 50	30	987	61,5	0,80	S1		
	440	D 60	30	1189	53,5	0,79	S1		
	460	D 60	30	1190	52,6	0,77	S1		
Eff class IE3	50Hz: IE3-92,9%(100%)-93,0%(75%)-92,2%(50%) 60Hz: IE3-93,4%(100%)								
Resistance				Insulation resistance at 45 °C		Overload			
Line	Ambient: 22 °C		1600 MΩ 1000 V		Torque 160% 15s				
U <sub>1</sub> - V <sub>1</sub>	0,12629 Ω								
U <sub>1</sub> - W <sub>1</sub>	0,12633 Ω								
V <sub>1</sub> - W <sub>1</sub>	0,12628 Ω								
				High-voltage test winding 1900 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		400,0 D	50	29,1	0,92		998	0,05	
Locked rotor test		82,6 D	50	60,8	2,89		0	0,33	
Thermal test (100% load)	290,0	400,0 D	50	60,3	32,3	30,0	988	0,77	93,0
Partial load points:									
-75% load	217,4	400,0 D	50	49,2	24,2	22,5	991	0,71	93,1
-50% load	144,8	400,0 D	50	39,6	16,3	15,0	994	0,59	92,3
-25% load	72,4	400,0 D	50	32,3	8,52	7,50	997	0,38	88,1
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method		
Stator winding :				63	1		1 Resistance		
Frame :				41	2		2 Thermocouples		
Bearing D-end :				47	2		3 Thermometer		
Rotor :				79	3				
Ambient Temperature :				25	2				
Vibration [mm/s]:	D-end	↓ 0,6	→ 0,3	Starting current (I <sub>S</sub> / I <sub>N</sub> ) : 7,21					
	N-end	1,4	0,4	Locked rotor torque (T <sub>L</sub> / T <sub>N</sub> ) : 2,90					
	Axial	0,5		Pull-up torque (T <sub>U</sub> / T <sub>N</sub> ) : 2,54					
				Breakdown torque (T <sub>B</sub> / T <sub>N</sub> ) : 3,30					
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		25.11.2014			
Tested by ABB Oy, Motors and Generators, Vaasa, Finland						Telephone		+358 10 2211	
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