



Test Report				Date of issue: 18.3.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3GP 250SMA 6					
				Product Code: 3GGP253210-ADL					
				Protection type: Ex tc IIIB/C T125C Dc					
				Cert. No.: LCIE 13 ATEX 1034 X					
				IECEX LCIE 13.0047 X					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	37	990	41,5	0,80	S1		
Insul.cl.F	400	D 50	37	990	71,1	0,80	S1		
	415	D 50	37	990	69,8	0,79	S1		
	440	D 60	37	1190	63,8	0,81	S1		
Eff class IE3	460	D 60	37	1191	61,8	0,8	S1		
50Hz: IE3-93,3%(100%)-93,7%(75%)-93,5%(50%)									
60Hz: IE3-93,7%(100%)									
Resistance				Insulation resistance at 86 °C		Overload			
Line	Ambient: 21 °C			2000 MΩ 1000 V		Torque 160% 15s			
U <sub>1</sub> - V <sub>1</sub>	0,11370 Ω					Speed 120% 120s			
U <sub>1</sub> - W <sub>1</sub>	0,11400 Ω					Current 150% 15s			
V <sub>1</sub> - W <sub>1</sub>	0,11360 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]	η[r/min]	cos φ	η[%]
No load test		400,6 D	50	27,8	0,80		998	0,04	
Locked rotor test		82,5 D	50	69,1	3,53		0	0,36	
Thermal test (100% load)	357,1	400,7 D	50	71,1	39,7	37,0	990	0,81	93,3
Partial load points:									
~75% load	268,2	400,2 D	50	56,0	29,6	27,8	992	0,76	93,7
~50% load	178,8	400,2 D	50	42,8	19,8	18,5	995	0,67	93,5
~25% load	88,9	400,8 D	50	32,7	10,2	9,3	997	0,45	90,6
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method		
Stator winding :				58	1		1 Resistance		
Frame :				44	2		2 Thermocouples		
Bearing D-end :				43	2		3 Thermometer		
Rotor:				76	3				
Ambient Temperature :				25	2				
These tests have been carried out on motor no. 3G1P141700192, on date 2014-09-26 which is identical in design with the above.						Starting current (I <sub>S</sub> / I <sub>N</sub> ) : 6,54			
						Locked rotor torque (T <sub>L</sub> / T <sub>N</sub> ) : 2,41			
						Pull-up torque (T <sub>U</sub> / T <sub>N</sub> ) : 1,94			
						Breakdown torque (T <sub>B</sub> / T <sub>N</sub> ) : 3,12			
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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