



Test Report				Date of issue: 18.3.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3GP 250SMA 2					
				Product Code: 3GGP251210-ADL					
				Protection type: Ex nA IIC T3 Gc					
				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	55	2968	54,9	0,89	S1		
Insul.cl.F	400	D 50	55	2968	94,8	0,89	S1		
IP55	415	D 50	55	2970	92,1	0,89	S1		
	440	D 60	55	3566	85,9	0,89	S1		
Eff class IE3	460	D 60	55	3569	82,7	0,90	S1		
50Hz: IE3-94,3%(100%)-93,7%(75%)-93,6%(50%)									
60Hz: IE3-93,6%(100%)									
Resistance				Insulation resistance at 99 °C		Overload			
Line	Ambient: 22 °C			2000 MΩ 1000 V		Torque 160% 15s			
U <sub>1</sub> - V <sub>1</sub>	0,05823 Ω					Speed 120% 120s			
U <sub>1</sub> - W <sub>1</sub>	0,05819 Ω					Current 150% 15s			
V <sub>1</sub> - W <sub>1</sub>	0,05820 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		400,2 D	50	24,1	1,28		2998	0,08	
Locked rotor test		72,1 D	50	94,8	4,30		0	0,36	
Thermal test (100% load)	176,7	400,4 D	50	94,8	58,2	55,0	2968	0,89	94,6
Partial load points:									
~75% load	132,6	400,3 D	50	72,6	43,6	41,3	2975	0,87	94,6
~50% load	88,4	400,3 D	50	52,1	29,3	27,5	2983	0,81	94,0
~25% load	44,5	400,6 D	50	34,7	15,2	13,8	2990	0,63	90,6
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				66	1			1 Resistance	
Frame :				39	2			2 Thermocouples	
Bearing D-end :				48	2			3 Thermometer	
Rotor:				81	3				
Ambient Temperature :				25	2				
These tests have been carried out on motor no. 3G1P141700190, on date 2014-09-24 which is identical in design with the above.						Starting current (I <sub>S</sub> / I <sub>N</sub> ) : 6,83			
						Locked rotor torque (T <sub>L</sub> / T <sub>N</sub> ) : 2,37			
						Pull-up torque (T <sub>U</sub> / T <sub>N</sub> ) : 1,99			
						Breakdown torque (T <sub>B</sub> / T <sub>N</sub> ) : 2,98			
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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