



Test Report				Date of issue: 18.3.2015					
				Serial No.:					
				Type:	M3GP 250SMA 4				
				Product Code:	3GGP252210-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	55	1482	58	0,84	S1		
Insul.cl.F	400	D 50	55	1482	100	0,84	S1		
	415	D 50	55	1484	98,6	0,82	S1		
	440	D 60	55	1782	90,2	0,84	S1		
Eff class IE3	460	D 60	55	1785	87,5	0,83	S1		
50Hz: IE3-94,6%(100%)-94,7%(75%)-94,0%(50%)									
60Hz: IE3-95,4%(100%)									
Resistance				Insulation resistance at 101 °C		Overload			
Line	Ambient: 26 °C			2000 MΩ 1000 V		Torque 160% 15s Speed 120% 120s Current 150% 15s			
U <sub>1</sub> - V <sub>1</sub>	0,06090 Ω								
U <sub>1</sub> - W <sub>1</sub>	0,06070 Ω								
V <sub>1</sub> - W <sub>1</sub>	0,06080 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		400,5 D	50	38,7	1,24		1498	0,05	
Locked rotor test		74,1 D	50	100,3	5,00		0	0,39	
Thermal test (100% load)	353,0	400,5 D	50	100,5	58,1	55,0	1482	0,84	94,7
Partial load points:									
~75% load	265,0	400,3 D	50	79,3	43,5	41,3	1487	0,79	94,8
~50% load	176,2	400,8 D	50	60,6	29,2	27,5	1491	0,70	94,2
~25% load	88,1	400,2 D	50	45,8	15,1	13,8	1496	0,48	91,0
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method	
Stator winding :				62	1			1 Resistance	
Frame :				39	2			2 Thermocouples	
Bearing D-end :				37	2			3 Thermometer	
Rotor:				89	3				
Ambient Temperature :				25	2				
These tests have been carried out on motor no. 3G1P141700191, on date 2014-10-03 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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