



Test Report				Date of issue: 16.3.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3GP 200MLB 6					
				Product Code: 3GGP203420-ADL					
				Protection type: Ex tb IIIB/C T125C Db					
				Cert. No.: LCIE 13 ATEX 3067 X					
				IECEX LCIE 13.0047 X					
Rating:									
	V	Hz	kW	r/min	A	cos φ	Duty		
3-Motor	690	Y 50	22,0	989	24,6	0,81	S1		
Insul.cl.F	400	D 50	22,0	989	42,4	0,81	S1		
IP65	415	D 50	22,0	990	41,9	0,79	S1		
	440	D 60	22,0	1190	38,1	0,82	S1		
Eff class IE3	460	D 60	22,0	1191	36,7	0,81	S1		
50Hz: IE3-92,2%(100%)-92,4%(75%)-91,4%(50%)									
60Hz: IE3-93,0%(100%)									
Resistance				Insulation resistance at 86 °C		Overload			
Line	Ambient: 24 °C		2000 MΩ		1000 V		Torque 160% 15s		
U <sub>1</sub> - V <sub>1</sub>	0,21280 Ω						Speed 120% 120s		
U <sub>1</sub> - W <sub>1</sub>	0,21320 Ω						Current 150% 15s		
V <sub>1</sub> - W <sub>1</sub>	0,21310 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		400,3 D	50	18,0	0,74		998	0,06	
Locked rotor test		78,7 D	50	42,4	1,94		0	0,33	
Thermal test (100% load)	212,6	400,5 D	50	42,4	23,8	22,0	989	0,81	92,4
Partial load points:									
~75% load	159,6	400,6 D	50	34,0	17,8	16,5	993	0,76	92,6
~50% load	106,2	400,7 D	50	26,6	12,0	9,3	995	0,68	91,6
~25% load	53,0	400,9 D	50	26,6	12,0	11,0	995	0,65	91,7
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method		
Stator winding :				51	1		1 Resistance		
Frame :				39	2		2 Thermocouples		
Bearing D-end :				35	2		3 Thermometer		
Rotor :				65	3				
Ambient Temperature :				25	2				
<p>These tests have been carried out on motor no. 3G1P141700185, on date 2014-07-09 which is identical in design with the above.</p> <p>Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.</p>									
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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