



Test Report				Date of issue: 25.5.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3GP 180MLA 2					
				Product Code: 3GGP181410-ADK					
				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	2957	21,7	0,91	S1		
Insul.cl.F	400	D 50	22,0	2957	37,4	0,91	S1		
IP65	660	Y 50	22,0	2952	22,9	0,91	S1		
	380	D 50	22,0	2952	39,5	0,91	S1		
	415	D 50	22,0	2961	36,0	0,91	S1		
	460	D 60	22,0	3563	32,5	0,91	S1		
Eff class IE3	50Hz : IE3-93,2(100%)-93,9(75%)-93,8(50%)								
	60Hz : IE3-92,9(100%)								
Resistance				Insulation resistance at 22 °C		Overload			
Line	Ambient: 21,9 °C			R > 2000 Mohm 1000 V		Current 150 % 120s			
U <sub>1</sub> - V <sub>1</sub>	0,18800 Ω					Torque 160 % 15s			
U <sub>1</sub> - W <sub>1</sub>	0,18680 Ω					Speed 120 % 120s			
V <sub>1</sub> - W <sub>1</sub>	0,18660 Ω								
				High-voltage test winding 2400 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		401 D	50	9,4	0,41		3000	0,06	
Locked rotor test		65 D	50	39,2	1,69		0	0,38	
Thermal test ( 100% load )	71,1	400 D	50	37,3	23,44	22,00	2957	0,91	93,85
Partial load points:									
~75% load	78,6	400 D	50	28,1	17,16	16,20	1969	0,88	94,41
~50% load	34,9	400 D	50	20,2	11,54	10,88	2980	0,83	94,27
~25% load	17,2	400 D	50	13,2	5,86	5,38	2991	0,64	91,82
Temperature rise at rated load.				°C	[K]	Method	Measurement method		
Stator winding :				43,0	1	1 Resistance			
Frame :				22,5	2	2 Thermometer			
Bearing D-end :				24,3	2	3 Thermocouples			
Ambient Temperature :				22	2				
<p>These tests have been carried out on motor no. 3GV1110796867001, on date 2011-09-30 which is identical in electrical 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 AB, LV Motors, 721 70 Västerås, Sweden						Telephone +46 (0)21 32 90 00			
						Telefax +46 (0)21 32 90 22			

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