



Test Report				Date of issue: 25.5.2015					
Customer:				Serial No.:					
Customer ref.:				Order No.:					
				Type: M3GP 160MLB 6K					
				Product Code: 3GGP163420-ADK					
				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	11,0	979	13,6	0,74	S1	
Insul.cl.F		400	D 50	11,0	979	23,5	0,74	S1	
IP55		660	Y 50	11,0	976	13,8	0,77	S1	
		380	D 50	11,0	976	23,8	0,77	S1	
		415	D 50	11,0	981	23,6	0,71	S1	
		460	D 60	11,0	1183	20,6	0,73	S1	
Eff class IE3		50Hz : IE3-91,2(100%)-91,8(75%)-91,1(50%) 60Hz : IE3-91,7(100%)							
Resistance				Insulation resistance at 22 °C		Overload			
Line		Ambient: 21,5 °C		R > 2000 Mohm 1000 V		Current 150 % 120s			
U ₁ - V ₁		0,4271 Ω				Torque 160 % 15s			
U ₁ - W ₁		0,4259 Ω				Speed 120 % 120s			
V ₁ - W ₁		0,4259 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		400 D	50	12,1	0,45		1000	0,05	
Locked rotor test		85 D	50	23,3	0,91		0	0,26	
Thermal test (100% load)	107,1	400 D	50	23,3	12,13	11,00	981	0,75	90,69
Partial load points:									
~75% load	81,6	400 D	50	19,4	9,26	8,42	986	0,69	90,91
~50% load	55,1	400 D	50	16,0	6,34	5,71	991	0,57	90,03
~25% load	27,4	400 D	50	13,2	3,35	2,85	995	0,37	85,14
Temperature rise at rated load.				°C	[K]	Method	Measurement method		
Stator winding :				40,9	1	1 Resistance			
Frame :				30,3	2	2 Thermometer			
Bearing D-end :				27,7	2	3 Thermocouples			
Ambient Temperature :				22	2				
These tests have been carried out on motor no. 3GV1110796907001, on date 2011-10-14 which is identical in electrical 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 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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