



Test Report				Date of issue: 22.5.2015							
Customer:				Serial No.:							
Customer ref.:				Order No.:							
				Type: M3GP 160MLB 2K							
				Product Code: 3GGP161420-ADK							
				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	15,0	2943	14,7	0,92	S1			
Insul.cl.F		400	D 50	15,0	2943	25,4	0,92	S1			
		660	Y 50	15,0	2935	15,4	0,93	S1			
		380	D 50	15,0	2935	26,5	0,93	S1			
		415	D 50	15,0	2948	24,7	0,91	S1			
Eff class IE3		460	D 60	15,0	3552	22,1	0,92	S1			
		50Hz : IE3-92,5(100%)-93,4(75%)-93,2(50%)									
		60Hz : IE3-92,3(100%)									
Resistance				Ambient: 22,4 °C			Insulation resistance at 22 °C		Overload		
Line		U ₁ - V ₁		0,2831 Ω		R > 2000 Mohm 1000 V		Current 150 % 120s			
		U ₁ - W ₁		0,2815 Ω				Torque 160 % 15s			
		V ₁ - W ₁		0,2814 Ω				Speed 120 % 120s			
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	7,4	0,36		3000	0,07			
Locked rotor test		56 D	50	29,2	1,09		0	0,39			
Thermal test (100% load)	48,5	400 D	50	25,7	16,11	15,00	2951	0,90	93,10		
Partial load points:											
~75% load	35,9	400 D	50	19,7	11,91	11,14	2963	0,87	93,50		
~50% load	22,3	400 D	50	13,7	7,49	6,96	2978	0,79	93,00		
~25% load	12,0	400 D	50	9,9	4,16	3,75	2988	0,61	90,19		
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :				41,1	1			1 Resistance			
Frame :				22,2	2			2 Thermometer			
Bearing D-end :				20,7	2			3 Thermocouples			
Ambient Temperature :				22	2						
<p>These tests have been carried out on motor no. 3GV1110777052001, on date 2011-10-06 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					
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