



Test Report				Date of issue: 19.5.2015						
Customer:				Serial No.:						
Customer ref.:				Order No.:						
				Type: M3GP 160MLA 2						
				Product Code: 3GGP161410-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	2943	10,8	0,92	S1		
Insul.cl.F		400	D 50	11,0	2943	18,7	0,92	S1		
IP55		660	Y 50	11,0	2934	11,4	0,93	S1		
		380	D 50	11,0	2934	19,6	0,93	S1		
		415	D 50	11,0	2948	18,2	0,91	S1		
Eff class IE3		460	D 60	11,0	3552	16,5	0,91	S1		
		50Hz : IE3-92,1(100%)-92,7(75%)-92,4(50%)								
		60Hz : IE3-91,8(100%)								
Resistance				Insulation resistance at 22 °C			Overload			
Line				R > 2000 Mohm 1000 V			Current 150 % 120s			
U ₁ - V ₁				Ambient: 22,2 °C			Torque 160 % 15s			
U ₁ - W ₁				0,42360 Ω			Speed 120 % 120s			
V ₁ - W ₁				0,42210 Ω						
				0,42240 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	5,5	0,3		3000	0,08		
Locked rotor test		58 D	50	18,1	0,70		0	0,38		
Thermal test (100% load)	35,6	400 D	50	19,2	11,93	11,00	2949	0,90	92,24	
Partial load points:										
~75% load	30,4	400 D	50	16,7	10,21	9,46	2973	0,88	92,63	
~50% load	23,8	400 D	50	13,5	8,01	7,43	2983	0,86	92,78	
~25% load	16,2	400 D	50	10,1	5,50	5,08	2993	0,79	92,22	
Temperature rise at rated load.				°C	[K]	Method		Measurement method		
Stator winding :				38,2	38,2	1		1 Resistance		
Frame :				17,6	17,6	2		2 Thermometer		
Bearing D-end :				20	20	2		3 Thermocouples		
Ambient Temperature :				22	22	2				
<p>These tests have been carried out on motor no. 3GV1110796857001, on date 2011-10-5 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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