



Test Report				Date of issue: 25.5.2015						
Customer:				Serial No.:						
Customer ref.:				Order No.:						
				Type: M3GP 160MLC 2						
				Product Code: 3GGP161430-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	18,5	2942	17,9	0,93	S1		
Insul.cl.F		400	D 50	18,5	2942	30,8	0,93	S1		
IP55		660	Y 50	18,5	2935	18,9	0,93	S1		
		380	D 50	18,5	2935	32,6	0,93	S1		
		415	D 50	18,5	2948	30,0	0,92	S1		
Eff class IE3		460	D 60	18,5	3551	26,8	0,93	S1		
		50Hz : IE3-93,1(100%)-93,9(75%)-93,9(50%)								
		60Hz : IE3-92,9(100%)								
Resistance				Insulation resistance at 22,1 °C			Overload			
Line		Ambient: 20,6 °C		R > 2000 Mohm 1000 V			Current 150 % 120s			
U ₁ - V ₁		0,2242 Ω					Torque 160 % 15s			
U ₁ - W ₁		0,2234 Ω					Speed 120 % 120s			
V ₁ - W ₁		0,2238 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		399	D	50	8,1	0,41		3000	0,07	
Locked rotor test		60	D	50	32,9	1,34		0	0,39	
Thermal test (100% load)	60,0	400	D	50	31,6	19,91	18,50	2947	0,91	92,90
Partial load points:										
~75% load	44,3	400	D	50	23,9	14,70	13,75	2962	0,89	93,50
~50% load	28,2	400	D	50	16,7	9,44	8,80	2976	0,81	93,27
~25% load	13,9	400	D	50	11,1	4,81	4,34	2989	0,62	90,22
Temperature rise at rated load.				°C	[K]	Method		Measurement method		
Stator winding :				49,5	1			1 Resistance		
Frame :				27,8	2			2 Thermometer		
Bearing D-end :				31,4	2			3 Thermocouples		
Ambient Temperature :				22	2					
<p>These tests have been carried out on motor no. 3GV12108464070004, on date 2012-01-18 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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