



Test Report				Date of issue: 27.5.2015							
Customer:				Serial No.:							
Customer ref.:				Order No.:							
				Type: M3GP 180MLA 6							
				Product Code: 3GGP183410-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	981	17,6	0,77	S1			
Insul.cl.F		400	D 50	15,0	981	30,4	0,77	S1			
		660	Y 50	15,0	980	18,1	0,79	S1			
		380	D 50	15,0	980	31,3	0,79	S1			
		415	D 50	15,0	982	30,1	0,75	S1			
Eff class IE3		460	D 60	15,0	1183	27,1	0,75	S1			
		50Hz : IE3-92,2(100%)-92,4(75%)-91,5(50%)									
		60Hz : IE3-92,3(100%)									
Resistance				Insulation resistance at 22 °C			Overload				
Line		Ambient: 22,2 °C		R > 2000 Mohm 1000 V			Current 150 % 120s				
U ₁ - V ₁		0,38170 Ω					Torque 160 % 15s				
U ₁ - W ₁		0,38060 Ω					Speed 120 % 120s				
V ₁ - W ₁		0,38160 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	12,5	0,37			1000	0,04	
Locked rotor test		98	D	50	29,5	1,38				0,28	
Thermal test (100% load)	146,5	400	D	50	29,8	16,34	15,00	978	0,79	91,78	
Partial load points:											
~75% load	111,1	400	D	50	23,9	12,37	11,44	984	0,75	92,52	
~50% load	74,0	400	D	50	18,5	8,29	7,67	989	0,65	92,56	
~25% load	38,2	400	D	50	14,5	4,42	3,98	995	0,44	89,98	
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :				40,4	1			1 Resistance			
Frame :				27,3	2			2 Thermometer			
Bearing D-end :				23,1	2			3 Thermocouples			
Ambient Temperature :				22	2						
<p>These tests have been carried out on motor no. 3GV1210923142001, on date 2011-05-02 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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