



Test Report				Date of issue: 25.5.2015							
Customer:				Serial No.:							
Customer ref.:				Order No.:							
				Type: M3GP 180MLA 2							
				Product Code: 3GGP181410-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	22,0	2957	21,7	0,91	S1			
Insul.cl.F		400	D 50	22,0	2957	37,4	0,91	S1			
		660	Y 50	22,0	2952	22,9	0,91	S1			
		380	D 50	22,0	2952	39,5	0,91	S1			
		415	D 50	22,0	2961	36,0	0,91	S1			
		460	D 60	22,0	3563	32,5	0,91	S1			
Eff class IE3		50Hz : IE3-93,2(100%)-93,9(75%)-93,8(50%) 60Hz : IE3-92,9(100%)									
Resistance Line				Ambient: 21,9 °C			Insulation resistance at 22 °C		Overload		
U ₁ - V ₁				0,18800 Ω			R > 2000 Mohm 1000 V		Current 150 % 120s		
U ₁ - W ₁				0,18680 Ω					Torque 160 % 15s		
V ₁ - W ₁				0,18660 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		401 D	50	9,4	0,41		3000	0,06			
Locked rotor test		65 D	50	39,2	1,69		0	0,38			
Thermal test (100% load)	71,1	400 D	50	37,3	23,44	22,00	2957	0,91	93,85		
Partial load points:											
~75% load	78,6	400 D	50	28,1	17,16	16,20	1969	0,88	94,41		
~50% load	34,9	400 D	50	20,2	11,54	10,88	2980	0,83	94,27		
~25% load	17,2	400 D	50	13,2	5,86	5,38	2991	0,64	91,82		
Temperature rise at rated load.				°C	[K]	Method		Measurement method			
Stator winding :				43,0	43,0	1		1 Resistance			
Frame :				22,5	22,5	2		2 Thermometer			
Bearing D-end :				24,3	24,3	2		3 Thermocouples			
Ambient Temperature :				22	22	2					
<p>These tests have been carried out on motor no. 3GV1110796867001, on date 2011-09-30 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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