



Test Report				Date of issue: 29.5.2015						
Customer:				Serial No.:						
				Order No.:						
Customer ref.:				Type: M3GP 225SMA 6						
				Product Code: 3GGP223210-ADK						
				Protection type: Ex tb IIIB/C T125C Db						
				Cert. No.: LCIE 13 ATEX 3067 X / IECEx LCIE 13.0047 X						
Rating:										
				V	Hz	kW	r/min	A	cos φ	Duty
3-Motor				690	Y 50	30,0	989	32,9	0,81	S1
Insul.cl.F				400	D 50	30,0	989	56,8	0,81	S1
IP65				660	Y 50	30,0	987	33,7	0,83	S1
				380	D 50	30,0	987	58,5	0,83	S1
				415	D 50	30,0	990	56,0	0,79	S1
				460	D 60	30,0	1191	49,9	0,80	S1
Eff class IE3				50Hz : IE3-94,1(100%)-94,6(75%)-94,4(50%)						
				60Hz : IE3-94,2(100%)						
Resistance				Insulation resistance at 24 °C				Overload		
Line				R > 2000 Mohm 1000 V				Current 150 % 120s		
U ₁ - V ₁				Ambient: 23,3 °C				Torque 160 % 15s		
U ₁ - W ₁				0,12480 Ω				Speed 120 % 120s		
V ₁ - W ₁				0,12490 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]	η[r/min]	cos φ	η [%]	
No load test		401,2 D	50	24,6	0,64		1000	0,04		
Locked rotor test		89,2 D	50	64,5	3,13		0	0,31		
Thermal test (100% load)	289,6	400 D	50	57,8	31,84	30,00	989	0,80	94,22	
Partial load points:										
~75% load	221,5	400 D	50	46,9	24,36	23,02	992	0,75	94,53	
~50% load	150,2	400 D	50	36,9	16,61	15,65	995	0,65	94,25	
~25% load	78,2	400 D	50	28,7	8,89	8,17	998	0,45	91,85	
Temperature rise at rated load.				°C	K	Method		Measurement method		
Stator winding :				50,0	1			1 Resistance		
Frame :				39,6	2			2 Thermometer		
Bearing D-end :				33,6	2			3 Thermocouples		
Ambient Temperature :				24	2					
These tests have been carried out on motor no. 3GV1110796911001, on date 2011-10-06 which is identical in electrical design with the above. Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss. 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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