



Test Report				Date of issue: 27.5.2015						
Customer:				Serial No.:						
				Order No.:						
Customer ref.:				Type: M3GP 225SMA 2						
				Product Code: 3GGP221210-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	45,0	2972	44,5	0,89	S1
Insul.cl.F				400	D 50	45,0	2972	76,8	0,89	S1
IP55				660	Y 50	45,0	2968	46,8	0,89	S1
				380	D 50	45,0	2968	81,2	0,89	S1
				415	D 50	45,0	2974	74,0	0,89	S1
				460	D 60	45,0	3575	66,8	0,89	S1
Eff class IE3				50Hz : IE3-94,9(100%)-95,2(75%)-94,8(50%) 60Hz : IE3-94,4(100%)						
Resistance				Insulation resistance at 22 °C				Overload		
Line				Ambient: 22,8 °C				R > 2000 Mohm 1000 V		
U ₁ - V ₁				0,05380 Ω				Current 150 % 120s		
U ₁ - W ₁				0,05375 Ω				Torque 160 % 15s		
V ₁ - W ₁				0,05382 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]	η[r/min]	cos φ	η [%]	
No load test		400,5 D	50	18,3	0,82		3000	0,06		
Locked rotor test		70,8 D	50	77,2	3,40		0	0,36		
Thermal test (100% load)	144,6	400 D	50	75,9	47,14	45,00	2972	0,90	95,46	
Partial load points:										
~75% load	110,0	400 D	50	59,3	35,90	34,32	2980	0,87	95,61	
~50% load	73,8	400 D	50	42,3	24,24	23,08	2987	0,83	95,21	
~25% load	38,6	400 D	50	27,8	13,01	12,10	2995	0,68	93,00	
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method			
Stator winding :				49,5	1	1 Resistance				
Frame :				30,5	2	2 Thermometer				
Bearing D-end :				28,6	2	3 Thermocouples				
Ambient Temperature :				24	2					
These tests have been carried out on motor no. 3GV1110779325001, on date 2011-09-20 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										
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