



Test Report				Date of issue: 29.5.2015						
Customer:				Serial No.:						
Customer ref.:				Order No.:						
				Type: M3GP 250SMA 6						
				Product Code: 3GGP253210-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	37,0	991	39,4	0,83	S1		
Insul.cl.F		400	D 50	37,0	991	68,0	0,83	S1		
IP55		660	Y 50	37,0	990	41,0	0,84	S1		
		380	D 50	37,0	990	71,1	0,84	S1		
		415	D 50	37,0	992	66,3	0,82	S1		
		460	D 60	37,0	1192	59,9	0,82	S1		
Eff class IE3		50Hz : IE3-94,4(100%)-94,9(75%)-94,7(50%)								
		60Hz : IE3-94,5(100%)								
Resistance				Insulation resistance at 22,1 °C			Overload			
Line		Ambient: 21,0 °C		R > 2000 Mohm 1000 V			Current 150 % 120s			
U ₁ - V ₁		0,10310 Ω					Torque 160 % 15s			
U ₁ - W ₁		0,10290 Ω					Speed 120 % 120s			
V ₁ - W ₁		0,10310 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		400,4 D	50	29,5	0,69		1000	0,03		
Locked rotor test		89,2 D	50	77,1	3,97		0	0,33		
Thermal test (100% load)	356,5	400 D	50	70,4	39,14	37,00	991	0,80	94,52	
Partial load points:										
~75% load	271,5	400 D	50	56,6	29,78	28,25	994	0,76	94,87	
~50% load	180,9	400 D	50	43,9	19,94	18,87	996	0,66	94,63	
~25% load	93,1	400 D	50	34,2	10,54	9,73	999	0,44	92,33	
Temperature rise at rated load.				°C	[K]	Method		Measurement method		
Stator winding :				53,3	53,3	1		1 Resistance		
Frame :				37,1	37,1	2		2 Thermometer		
Bearing D-end :				34,4	34,4	2		3 Thermocouples		
Ambient Temperature :				22	22	2				
<p>These tests have been carried out on motor no. 3GV1210866507002, on date 2012-02-13 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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