



Test Report				Date of issue: 27.5.2015						
Customer:				Serial No.:						
Customer ref.:				Order No.:						
				Type: M3GP 225SMA 2						
				Product Code: 3GGP221210-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	45,0	2972	44,5	0,89	S1		
Insul.cl.F		400	D 50	45,0	2972	76,8	0,89	S1		
		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		Current 150 % 120s		
U <sub>1</sub> - V <sub>1</sub>		0,05380 Ω						Torque 160 % 15s		
U <sub>1</sub> - W <sub>1</sub>		0,05375 Ω						Speed 120 % 120s		
V <sub>1</sub> - W <sub>1</sub>		0,05382 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		400,5 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					
<p>These tests have been carried out on motor no. 3GV1110779325001, on date 2011-09-20 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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