



Test Report				Date of issue: 17.3.2015																																													
Customer:				Serial No.:																																													
Customer ref.:				Type: M3GP 225SMA 2 Product Code: 3GGP221210-ADL Protection type: Ex nA IIC T3 Gc Cert. No.: LCIE 13 ATEX 1034 X IECEX LCIE 13.0047 X																																													
Rating:				<table border="1"> <thead> <tr> <th>V</th> <th>Hz</th> <th>kW</th> <th>r/min</th> <th>A</th> <th>cos φ</th> <th>Duty</th> </tr> </thead> <tbody> <tr> <td>690</td> <td>Y 50</td> <td>45</td> <td>2968</td> <td>46</td> <td>0,87</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>45</td> <td>2968</td> <td>79,6</td> <td>0,87</td> <td>S1</td> </tr> <tr> <td>415</td> <td>D 50</td> <td>45</td> <td>2970</td> <td>78,3</td> <td>0,85</td> <td>S1</td> </tr> <tr> <td>440</td> <td>D 60</td> <td>45</td> <td>3568</td> <td>71,8</td> <td>0,88</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>45</td> <td>3570</td> <td>67,4</td> <td>0,89</td> <td>S1</td> </tr> </tbody> </table>				V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	45	2968	46	0,87	S1	400	D 50	45	2968	79,6	0,87	S1	415	D 50	45	2970	78,3	0,85	S1	440	D 60	45	3568	71,8	0,88	S1	460	D 60	45	3570	67,4	0,89	S1
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Resistance Line Ambient: 23 °C U ₁ - V ₁ 0,06568 Ω U ₁ - W ₁ 0,06572 Ω V ₁ - W ₁ 0,06567 Ω				Insulation resistance at 39 °C 2000 MΩ 1000 V		Overload Torque 160% 15s Speed 120% 120s Current 150% 15s																																											
				High-voltage test winding 1900 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		400,0 D	50	21,5	1,25		2998	0,08																																									
Locked rotor test		71,4 D	50	78,5	3,56		0	0,37																																									
Thermal test (100% load)	144,8	400,2 D	50	79,6	47,9	45,0	2968	0,87	94,1																																								
Partial load points:																																																	
~75% load	108,6	400,0 D	50	61,1	35,9	33,8	2977	0,85	94,1																																								
~50% load	72,2	400,0 D	50	44,1	24,1	22,5	2985	0,79	93,2																																								
~25% load	36,3	400,0 D	50	29,6	12,6	11,3	2992	0,62	89,2																																								
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method																																										
Stator winding :				57	1		1 Resistance																																										
Frame :				35	2		2 Thermocouples																																										
Bearing D-end :				34	2		3 Thermometer																																										
Rotor:				54	3																																												
Ambient Temperature :				25	2																																												
<p>These tests have been carried out on motor no. 3G1P141700186, on date 2014-10-03 which is identical in 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> <p>On behalf of customer</p> <p>On behalf of manufacturer Date of test</p> <p>Tested by ABB Oy, Motors and Generators, Vaasa, Finland</p>																																																	
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