



Test Report				Date of issue: 29.5.2015																																																				
Customer:				Serial No.:																																																				
Customer ref.:				Order No.: Type: M3GP 225SMA 4 Product Code: 3GGP222210-ADK Protection type: Ex tb IIIB/C T125C Db Cert. No.: LCIE 13 ATEX 3067 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</td> <td>50</td> <td>37,0</td> <td>1482</td> <td>37,9</td> <td>0,86 S1</td> </tr> <tr> <td>400</td> <td>D</td> <td>50</td> <td>37,0</td> <td>1482</td> <td>65,4</td> <td>0,86 S1</td> </tr> <tr> <td>660</td> <td>Y</td> <td>50</td> <td>37,0</td> <td>1480</td> <td>39,4</td> <td>0,87 S1</td> </tr> <tr> <td>380</td> <td>D</td> <td>50</td> <td>37,0</td> <td>1480</td> <td>68,4</td> <td>0,87 S1</td> </tr> <tr> <td>415</td> <td>D</td> <td>50</td> <td>37,0</td> <td>1484</td> <td>63,6</td> <td>0,85 S1</td> </tr> <tr> <td>460</td> <td>D</td> <td>60</td> <td>37,0</td> <td>1784</td> <td>57,3</td> <td>0,85 S1</td> </tr> </tbody> </table>				V	Hz	kW	r/min	A	cos φ	Duty	690	Y	50	37,0	1482	37,9	0,86 S1	400	D	50	37,0	1482	65,4	0,86 S1	660	Y	50	37,0	1480	39,4	0,87 S1	380	D	50	37,0	1480	68,4	0,87 S1	415	D	50	37,0	1484	63,6	0,85 S1	460	D	60	37,0	1784	57,3	0,85 S1
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3-Motor Insul.cl.F IP65 Eff class IE3				50Hz : IE3-94,9(100%)-95,5(75%)-95,4(50%) 60Hz : IE3-95,3(100%)																																																				
Resistance Line U ₁ - V ₁ U ₁ - W ₁ V ₁ - W ₁				Ambient: 23,6 °C 0,08386 Ω 0,08397 Ω 0,08390 Ω																																																				
Insulation resistance at 24 °C R > 2000 Mohm 1000 V				Overload Current 150 % 120s Torque 160 % 15s 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		401 D	50	22,9	0,59		1500	0,04																																																
Locked rotor test		71,1 D	50	65,2	3,40		0	0,34																																																
Thermal test (100% load)	238,4	400 D	50	65,9	38,91	37,00	1482	0,85	95,08																																															
Partial load points:																																																								
~75% load	180,9	400 D	50	52,0	29,51	28,17	1487	0,82	95,46																																															
~50% load	123,1	400 D	50	39,4	20,17	19,24	1492	0,74	95,40																																															
~25% load	61,1	400 D	50	28,3	10,25	9,57	1496	0,52	93,43																																															
Temperature rise at rated load.				<table border="1"> <thead> <tr> <th></th> <th>[°C]</th> <th>[K]</th> <th>Method</th> </tr> </thead> <tbody> <tr> <td>Stator winding :</td> <td></td> <td>58,0</td> <td>1</td> </tr> <tr> <td>Frame :</td> <td></td> <td>44,0</td> <td>2</td> </tr> <tr> <td>Bearing D-end :</td> <td></td> <td>40,3</td> <td>2</td> </tr> <tr> <td>Ambient Temperature :</td> <td>24</td> <td></td> <td>2</td> </tr> </tbody> </table>				[°C]	[K]	Method	Stator winding :		58,0	1	Frame :		44,0	2	Bearing D-end :		40,3	2	Ambient Temperature :	24		2	Measurement method 1 Resistance 2 Thermometer 3 Thermocouples																													
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These tests have been carried out on motor no. 3GV1110777064001, on date 2011-09-21 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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