



Test Report				Date of issue: 17.3.2015																																															
				Serial No.:																																															
				Type: M3KP 225SMA 4 IMB3 Product code: 3GKP222210-ADL Protection type: Ex de IIB T4 Gb Cert. No.: LCIE 10 ATEX 3057X/ IECEX LCI 04.0005X																																															
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>37</td> <td>1482</td> <td>39,8</td> <td>0,83</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>37</td> <td>1482</td> <td>68,9</td> <td>0,83</td> <td>S1</td> </tr> <tr> <td>415</td> <td>D 50</td> <td>37</td> <td>1483</td> <td>67,7</td> <td>0,81</td> <td>S1</td> </tr> <tr> <td>440</td> <td>D 60</td> <td>37</td> <td>1781</td> <td>61,6</td> <td>0,84</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>37</td> <td>1783</td> <td>59,3</td> <td>0,83</td> <td>S1</td> </tr> </tbody> </table>								V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	37	1482	39,8	0,83	S1	400	D 50	37	1482	68,9	0,83	S1	415	D 50	37	1483	67,7	0,81	S1	440	D 60	37	1781	61,6	0,84	S1	460	D 60	37	1783	59,3	0,83	S1
V	Hz	kW	r/min	A	cos φ	Duty																																													
690	Y 50	37	1482	39,8	0,83	S1																																													
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3~Motor																																																			
Insul.cl.F																																																			
IP55																																																			
		50Hz: IE3-93.9%(100%)-94.1%(75%)-93.8%(50%)																																																	
		60Hz: IE3-94,5%(100%)																																																	
Resistance				Insulation resistance at 40 °C				Overload																																											
Line				2300 MΩ 1000 V				Torque 160% 15s																																											
U ₁ - V ₁																																																			
U ₁ - W ₁																																																			
V ₁ - W ₁																																																			
Ambient: 22 °C																																																			
0,09531 Ω																																																			
0,09537 Ω																																																			
0,09549 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		400,1 D	50	26,6	0,84		1498	0,05																																											
Locked rotor test		74,3 D	50	67,7	3,24		0	0,37																																											
Thermal test (100% load)	238,6	400,0 D	50	68,9	39,5	37,0	1482	0,83	93,7																																										
Partial load points:																																																			
~75% load	178,9	400,0 D	50	54,2	29,5	27,8	1485	0,79	93,9																																										
~50% load	119,2	400,0 D	50	41,2	19,8	18,5	1490	0,69	93,6																																										
~25% load	59,5	400,0 D	50	31,1	10,2	9,25	1496	0,47	90,8																																										
Temperature rise at rated load.			°C	K	Method		Measurement method																																												
Stator winding :			75	1			1 Resistance																																												
Frame :			48	2			2 Thermocouples																																												
Bearing D-end :			54	2			3 Thermometer																																												
Ambient Temperature :			25	2																																															
These tests have been carried out on motor no. 3G1P141700187, on date 2014-10-03 which is identical in 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 Oy, Motors and Generators, Vaasa, Finland						Telephone +358 10 2211 Telefax +358 10 22 47372																																													

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