



Test Report		Cert. No. ATEX Cert. No. LCIE 09 ATEX 1010 IECEX Cert. No. IECEX LCI 09.0012																																											
Customer:		Date of Issue																																											
Customer ref.:		Type: M3GP 160MLA 2 Protection Ex nA II T3 type: Serial no.: Tag no.: Order no.:																																											
Rating: 3~Motor		Product Code 3GGP161410-_DH																																											
Insul.cl. F S1 IP 55 207 kg		<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> </tr> </thead> <tbody> <tr> <td>690 Y</td> <td>50</td> <td>11</td> <td>2931</td> <td>11,4</td> <td>0,89</td> </tr> <tr> <td>400 D</td> <td>50</td> <td>11</td> <td>2931</td> <td>19,7</td> <td>0,89</td> </tr> <tr> <td>660 Y</td> <td>50</td> <td>11</td> <td>2922</td> <td>11,9</td> <td>0,88</td> </tr> <tr> <td>380 D</td> <td>50</td> <td>11</td> <td>2922</td> <td>20,6</td> <td>0,88</td> </tr> <tr> <td>415 D</td> <td>50</td> <td>11</td> <td>2937</td> <td>19,7</td> <td>0,86</td> </tr> <tr> <td>440 D</td> <td>60</td> <td>12,7</td> <td>3521</td> <td>20,3</td> <td>0,91</td> </tr> </tbody> </table>		V	Hz	kW	r/min	A	cos φ	690 Y	50	11	2931	11,4	0,89	400 D	50	11	2931	19,7	0,89	660 Y	50	11	2922	11,9	0,88	380 D	50	11	2922	20,6	0,88	415 D	50	11	2937	19,7	0,86	440 D	60	12,7	3521	20,3	0,91
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Resistance U ₁ -V ₁ 0,5044 Ω U ₁ -W ₁ 0,5047 " V ₁ -W ₁ 0,5049 "		Insulation resistance 53000 MΩ 1000 V 30,5 °C High-voltage test 2900 V 1 s																																											
		Overload test 1,6 x T _N 15 s																																											
Test		<table border="1"> <thead> <tr> <th>Line U[V]</th> <th>f[Hz]</th> <th>Input I[A]</th> <th>P₁ [kW]</th> <th>Output P₂ [kW]</th> <th>η[r/min]</th> <th>cos φ</th> <th>η [%]</th> </tr> </thead> <tbody> <tr> <td>400,1 D</td> <td>50</td> <td>6,58</td> <td>0,482</td> <td></td> <td></td> <td>0,1057</td> <td></td> </tr> <tr> <td>76,1 D</td> <td>50</td> <td>20,0</td> <td>1,10</td> <td></td> <td></td> <td>0,4187</td> <td></td> </tr> <tr> <td>400,0 D</td> <td>50</td> <td>20,3</td> <td>12,27</td> <td>11,0</td> <td>2931</td> <td>0,88</td> <td>89,7</td> </tr> </tbody> </table>		Line U[V]	f[Hz]	Input I[A]	P ₁ [kW]	Output P ₂ [kW]	η[r/min]	cos φ	η [%]	400,1 D	50	6,58	0,482			0,1057		76,1 D	50	20,0	1,10			0,4187		400,0 D	50	20,3	12,27	11,0	2931	0,88	89,7										
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Stator winding 49,4 1		Frame 16,0 3 Bearing D-end 22,6 3																																											
		Measurement method 1 Resistance 2 Embedded temp. detector 3 Thermometer																																											
<p>These tests have been carried out on motor no. 3GF10022038B, 2010-04-23 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>																																													
On behalf of customer																																													
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Tested by ABB Oy Motors/Vaasa																																													