



<b>Test Report</b>		Cert. No. ATEX Cert.No.LCIE 09 ATEX 1010 IECEX Cert. No. IECEX LCI 09.0012																																											
Customer:		Date of Issue																																											
Customer ref.:		Type: M3GP 160MLD 2 Protection type: Ex nA II T3 Serial no.: Tag no.: Order no.:																																											
Rating: 3-Motor		Product Code 3GGP 161 440 - _DH																																											
Insul.cl. F S1 IP 55 233 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>22</td> <td>2929</td> <td>22,4</td> <td>0,90</td> </tr> <tr> <td><b>400 D</b></td> <td><b>50</b></td> <td><b>22</b></td> <td><b>2929</b></td> <td><b>38,6</b></td> <td><b>0,90</b></td> </tr> <tr> <td>660 Y</td> <td>50</td> <td>22</td> <td>2916</td> <td>23,5</td> <td>0,90</td> </tr> <tr> <td>380 D</td> <td>50</td> <td>22</td> <td>2916</td> <td>40,9</td> <td>0,90</td> </tr> <tr> <td>415 D</td> <td>50</td> <td>22</td> <td>2935</td> <td>37,7</td> <td>0,89</td> </tr> <tr> <td>440 D</td> <td>60</td> <td>25</td> <td>3516</td> <td>39,8</td> <td>0,91</td> </tr> </tbody> </table>		V	Hz	kW	r/min	A	cos φ	690 Y	50	22	2929	22,4	0,90	<b>400 D</b>	<b>50</b>	<b>22</b>	<b>2929</b>	<b>38,6</b>	<b>0,90</b>	660 Y	50	22	2916	23,5	0,90	380 D	50	22	2916	40,9	0,90	415 D	50	22	2935	37,7	0,89	440 D	60	25	3516	39,8	0,91
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Resistance U <sub>1</sub> -V <sub>1</sub> 0,2206 Ω U <sub>1</sub> -W <sub>1</sub> 0,2207 " V <sub>1</sub> -W <sub>1</sub> 0,2205 "		21 °C Insulation resistance 20000 MΩ 1000 V 25,5 °C High-voltage test 2400 V 60 s Overload test 1,6 x T <sub>N</sub> 15 s																																											
Test		Line U[V]	f[Hz]	Input I[A]	P <sub>1</sub> [kW]	Output P <sub>2</sub> [kW]	n[r/min]	cos φ	η [%]																																				
No-load test		399,9 D	50	10,5	0,774			0,106																																					
Locked-rotor test		73,8 D	50	39,1	2,12			0,425																																					
Temperature-rise test		400,1 D	50	39,1	24,19	22,0	2935	0,89	90,9																																				
Temperature rise at amb.temp. 25 °C [K] Method		Temperature rise at amb. temp. 25 °C [K] Method		Measurement method																																									
Sator winding 70,1 1		Frame 25,4 3 Bearing D-end 29,8 3 Rotor 110,8 3		1 Resistance 2 Embedded temp. detector 3 Thermometer																																									
<p>These tests have been carried out on motor no. 0751-01022754DD, 2008-04-13 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																																													