



Test Report				Date of issue: 25.5.2015																																																				
Customer:				Serial No.:																																																				
Customer ref.:				Order No.: Type: M3GP 160MLC 2 Product Code: 3GGP161430-ADK Protection type: Ex tc IIIB/C T125C Dc 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>18,5</td> <td>2942</td> <td>17,9</td> <td>0,93</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>18,5</td> <td>2942</td> <td>30,8</td> <td>0,93</td> <td>S1</td> </tr> <tr> <td>660</td> <td>Y 50</td> <td>18,5</td> <td>2935</td> <td>18,9</td> <td>0,93</td> <td>S1</td> </tr> <tr> <td>380</td> <td>D 50</td> <td>18,5</td> <td>2935</td> <td>32,6</td> <td>0,93</td> <td>S1</td> </tr> <tr> <td>415</td> <td>D 50</td> <td>18,5</td> <td>2948</td> <td>30,0</td> <td>0,92</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>18,5</td> <td>3551</td> <td>26,8</td> <td>0,93</td> <td>S1</td> </tr> </tbody> </table>				V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	18,5	2942	17,9	0,93	S1	400	D 50	18,5	2942	30,8	0,93	S1	660	Y 50	18,5	2935	18,9	0,93	S1	380	D 50	18,5	2935	32,6	0,93	S1	415	D 50	18,5	2948	30,0	0,92	S1	460	D 60	18,5	3551	26,8	0,93	S1
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3-Motor Insul.cl.F Eff class IE3				50Hz : IE3-93,1(100%)-93,9(75%)-93,9(50%) 60Hz : IE3-92,9(100%)																																																				
Resistance Line U ₁ - V ₁ U ₁ - W ₁ V ₁ - W ₁				Ambient: 20,6 °C 0,2242 Ω 0,2234 Ω 0,2238 Ω																																																				
Insulation resistance at 22,1 °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		399 D	50	8,1	0,41		3000	0,07																																																
Locked rotor test		60 D	50	32,9	1,34		0	0,39																																																
Thermal test (100% load)	60,0	400 D	50	31,6	19,91	18,50	2947	0,91	92,90																																															
Partial load points:																																																								
~75% load	44,3	400 D	50	23,9	14,70	13,75	2962	0,89	93,50																																															
~50% load	28,2	400 D	50	16,7	9,44	8,80	2976	0,81	93,27																																															
~25% load	13,9	400 D	50	11,1	4,81	4,34	2989	0,62	90,22																																															
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method																																																	
Stator winding :				49,5	1	1 Resistance																																																		
Frame :				27,8	2	2 Thermometer																																																		
Bearing D-end :				31,4	2	3 Thermocouples																																																		
Ambient Temperature :				22	2																																																			
These tests have been carried out on motor no. 3GV12108464070004, on date 2012-01-18 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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