



Type Test Report					Date of issue: 24.8.2015																																																			
Customer:					Serial No.:																																																			
Customer ref.:					Type: M3BP 160MLC 2 Product Code: 3GBP161430-ADG																																																			
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>18,5</td> <td>2932</td> <td>18,3</td> <td>0,92</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D</td> <td>50</td> <td>18,5</td> <td>2932</td> <td>31,5</td> <td>0,92</td> <td>S1</td> </tr> <tr> <td>415</td> <td>D</td> <td>50</td> <td>18,5</td> <td>2938</td> <td>30,7</td> <td>0,90</td> <td>S1</td> </tr> <tr> <td>440</td> <td>D</td> <td>60</td> <td>18,5</td> <td>3536</td> <td>28,6</td> <td>0,92</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D</td> <td>60</td> <td>18,5</td> <td>3543</td> <td>27,2</td> <td>0,92</td> <td>S1</td> </tr> </tbody> </table>					V	Hz	kW	r/min	A	cos φ	Duty	690	Y	50	18,5	2932	18,3	0,92	S1	400	D	50	18,5	2932	31,5	0,92	S1	415	D	50	18,5	2938	30,7	0,90	S1	440	D	60	18,5	3536	28,6	0,92	S1	460	D	60	18,5	3543	27,2	0,92	S1
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3~Motor Insul.cl.F IP55 Eff class IE2					50Hz : IE2 - 92,0%(100%) - 93,1%(75%) - 93,1%(50%) 60Hz : IE3 - 92,2%(100%)																																																			
Resistance Line U ₁ - V ₁ U ₁ - W ₁ V ₁ - W ₁					Ambient: 22,0 °C 0,25190 Ω 0,25090 Ω 0,25120 Ω																																																			
					Insulation resistance at 22 °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]	n[r/min]	cos φ	η [%]																																															
No load test		400 D	50	8,0	0,48		3000	0,09																																																
Locked rotor test		60 D	50	30,4	1,25			0,39																																																
Thermal test (100% load)	60,1	400 D	50	32,2	20,10	18,50	2940	0,90	92,03																																															
Partial load points:																																																								
~75% load	44,3	400 D	50	24,2	14,79	13,71	2958	0,88	92,71																																															
~50% load	28,0	400 D	50	16,7	9,45	8,73	2974	0,82	92,37																																															
~25% load	13,7	400 D	50	110,0	4,82	4,28	2987	0,06	88,78																																															
Temperature rise at rated load.					[°C]	[K]	Method	Measurement method																																																
Stator winding :					59,2	1	1 Resistance																																																	
Frame :					32,0	2	2 Thermometer																																																	
Bearing D-end :					35,6	2	3 Thermocouples																																																	
Ambient Temperature :					22	2																																																		
These tests have been carried out on motor no. 3GV1110683533010, on date 2011-06-23 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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