



Type Test Report				Date of issue: 1.9.2015																																																
Customer:				Serial No.:																																																
Customer ref.:				Type: M3AA 180MLA 8 Product Code: 3GAA184410-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 50</td> <td>11,0</td> <td>731</td> <td>16,2</td> <td>0,67</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>11,0</td> <td>731</td> <td>27,3</td> <td>0,67</td> <td>S1</td> </tr> <tr> <td>415</td> <td>D 50</td> <td>11,0</td> <td>733</td> <td>27,0</td> <td>0,65</td> <td>S1</td> </tr> <tr> <td>440</td> <td>D 50</td> <td>11,0</td> <td>883</td> <td>24,0</td> <td>0,68</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>11,0</td> <td>885</td> <td>23,5</td> <td>0,66</td> <td>S1</td> </tr> </tbody> </table>							V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	11,0	731	16,2	0,67	S1	400	D 50	11,0	731	27,3	0,67	S1	415	D 50	11,0	733	27,0	0,65	S1	440	D 50	11,0	883	24,0	0,68	S1	460	D 60	11,0	885	23,5	0,66	S1
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3-Motor Insul.cl.F IP55 Eff class IE2				50Hz : IE2 - 86,9(100%) - 88,5(75%) - 87,9(50%) 60Hz : IE1 - 88,3(100%)																																																
Resistance				Insulation resistance at 22 °C			Overload																																													
Line				R > 2000 Mohm 1000 V			Current 150 % 120s Torque 160 % 15s Speed 120 % 120s																																													
Ambient: 20,6 °C U ₁ - V ₁ 0,5839 Ω U ₁ - W ₁ 0,5832 Ω V ₁ - W ₁ 0,5842 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		401 D	50	14,3	0,56		750	0,06																																												
Locked rotor test		125 D	50	26,5	1,69		0	0,3																																												
Thermal test (100% load)	143,6	400 D	50	26,8	12,73	11,00	732	0,68	86,43																																											
Partial load points:																																																				
~75% load	110,0	400 D	50	22,3	9,72	8,49	737	0,63	87,36																																											
~50% load	73,4	400 D	50	18,4	6,56	5,70	742	0,51	86,90																																											
~25% load	37,5	400 D	50	15,5	3,58	2,93	746	0,33	82,03																																											
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method																																												
Stator winding :				64,5	1	1		1 Resistance																																												
Frame :				38,5	2	2		2 Thermometer																																												
Bearing D-end :				37,3	2	3		3 Thermocouples																																												
Ambient Temperature :				22	2																																															
<p>These tests have been carried out on motor no. 3GV1110842442007, on date 2012-02-16 which is identical in electrical 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																																																				
On behalf of manufacturer				Date of test																																																
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