



Type Test Report				Date of issue: 1.9.2015																																													
Customer:				Serial No.:																																													
Customer ref.:				Type: M3AA 200MLC 6 Product Code: 3GAA203430-ADG																																													
Rating:				<table border="1" style="width:100%; border-collapse: collapse;"> <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>30,0</td> <td>985</td> <td>32,9</td> <td>0,83</td> </tr> <tr> <td>400</td> <td>D</td> <td>50</td> <td>30,0</td> <td>985</td> <td>56,7</td> <td>0,83</td> </tr> <tr> <td>415</td> <td>D</td> <td>50</td> <td>30,0</td> <td>986</td> <td>56,6</td> <td>0,80</td> </tr> <tr> <td>440</td> <td>D</td> <td>60</td> <td>30,0</td> <td>1186</td> <td>50,3</td> <td>0,84</td> </tr> <tr> <td>460</td> <td>D</td> <td>60</td> <td>30,0</td> <td>1188</td> <td>48,7</td> <td>0,83</td> </tr> </tbody> </table>				V	Hz	kW	r/min	A	cos φ	Duty	690	Y	50	30,0	985	32,9	0,83	400	D	50	30,0	985	56,7	0,83	415	D	50	30,0	986	56,6	0,80	440	D	60	30,0	1186	50,3	0,84	460	D	60	30,0	1188	48,7	0,83
V	Hz	kW	r/min	A	cos φ	Duty																																											
690	Y	50	30,0	985	32,9	0,83																																											
400	D	50	30,0	985	56,7	0,83																																											
415	D	50	30,0	986	56,6	0,80																																											
440	D	60	30,0	1186	50,3	0,84																																											
460	D	60	30,0	1188	48,7	0,83																																											
Eff class IE2				50Hz : IE2 - 92,0(100%) - 93,1(75%) - 92,8(50%) 60Hz : IE2 - 93,0(100%)																																													
Resistance				Insulation resistance at 22,2 °C		Overload																																											
Line				R > 2000 Mohm		1000 V																																											
Ambient: 22,6 °C						Current 150 % 120s																																											
U ₁ - V ₁				0,18290 Ω		Torque 160 % 15s																																											
U ₁ - W ₁				0,18210 Ω		Speed 120 % 120s																																											
V ₁ - W ₁				0,18260 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	22,1	0,83		1000	0,05																																									
Locked rotor test		80 D	50	55,1	2,65		0	0,35																																									
Thermal test (100% load)	291,0	400 D	50	57,1	32,72	30,00	985	0,83	91,68																																								
Partial load points:																																																	
~75% load	198,3	400 D	50	44,2	23,96	20,54	989	0,73	92,36																																								
~50% load	151,9	400 D	50	35,3	17,12	15,78	992	0,70	92,17																																								
~25% load	75,2	400 D	50	26,3	8,82	7,85	996	0,48	89,04																																								
Temperature rise at rated load.				°C	[K]	Method		Measurement method																																									
Stator winding :				79,5	1			1 Resistance																																									
Frame :				46,0	2			2 Thermometer																																									
Bearing D-end :				56,2	2			3 Thermocouples																																									
Ambient Temperature :				21	2																																												
<p>These tests have been carried out on motor no. 08 537764 10001, on date 2008-09-11 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																																												
Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden					Telephone +46 (0)21 32 90 00 Telefax +46 (0)21 32 90 22																																												

Computer print-out valid without signature.