



Type Test Report				Date of issue: 1.9.2015																																																				
Customer:				Serial No.:																																																				
Customer ref.:				Type: M3AA 200MLB 2 Product Code: 3GAA201420-ADK																																																				
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>37,0</td> <td>2960</td> <td>35,9</td> <td>0,91 S1</td> </tr> <tr> <td>400</td> <td>D</td> <td>50</td> <td>37,0</td> <td>2960</td> <td>61,9</td> <td>0,91 S1</td> </tr> <tr> <td>660</td> <td>Y</td> <td>50</td> <td>37,0</td> <td>2955</td> <td>37,3</td> <td>0,92 S1</td> </tr> <tr> <td>380</td> <td>D</td> <td>50</td> <td>37,0</td> <td>2955</td> <td>64,8</td> <td>0,92 S1</td> </tr> <tr> <td>415</td> <td>D</td> <td>50</td> <td>37,0</td> <td>2964</td> <td>60,3</td> <td>0,90 S1</td> </tr> <tr> <td>460</td> <td>D</td> <td>60</td> <td>37,0</td> <td>3566</td> <td>54,0</td> <td>0,91 S1</td> </tr> </tbody> </table>				V	Hz	kW	r/min	A	cos φ	Duty	690	Y	50	37,0	2960	35,9	0,91 S1	400	D	50	37,0	2960	61,9	0,91 S1	660	Y	50	37,0	2955	37,3	0,92 S1	380	D	50	37,0	2955	64,8	0,92 S1	415	D	50	37,0	2964	60,3	0,90 S1	460	D	60	37,0	3566	54,0	0,91 S1
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3~Motor Insul.cl.F IP55 Eff class IE3				50Hz : IE3 - 94,7(100%) - 95,2(75%) - 95,0(50%) 60Hz : IE3 - 94,0(100%)																																																				
Resistance Line U ₁ - V ₁ U ₁ - W ₁ V ₁ - W ₁				Ambient: 22,6 °C 0,0854 Ω 0,0842 Ω 0,0827 Ω																																																				
Insulation resistance at R > 2000 Mohm				1000 V Overload Volt. 130 % 60s Curr. 160 % 120s 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		401,1 D	50	16,4	0,70		3000	0,06																																																
Locked rotor test		61,7 D	50	62,4	2,00			0,31																																																
Thermal test (100% load)	119,0	400 D	50	63,6	39,10	37,00	2970	0,89	94,70																																															
Partial load points:																																																								
~75% load	89,0	400 D	50	48,8	29,20	27,75	2979	0,86	95,00																																															
~50% load	59,1	400 D	50	35,1	19,50	18,50	2988	0,80	94,70																																															
~25% load	29,5	400 D	50	23,3	10,10	9,25	2997	0,62	92,00																																															
Temperature rise at rated load.				<table border="1"> <thead> <tr> <th></th> <th>[°C]</th> <th>[K]</th> <th>Method</th> </tr> </thead> <tbody> <tr> <td>Stator winding :</td> <td></td> <td>49,3</td> <td>1</td> </tr> <tr> <td>Frame :</td> <td>39</td> <td></td> <td>2</td> </tr> <tr> <td>Bearing D-end :</td> <td>47</td> <td></td> <td>2</td> </tr> <tr> <td>Ambient Temperature :</td> <td>22</td> <td></td> <td>2</td> </tr> </tbody> </table>				[°C]	[K]	Method	Stator winding :		49,3	1	Frame :	39		2	Bearing D-end :	47		2	Ambient Temperature :	22		2	Measurement method 1 Resistance 2 Thermometer 3 Thermocouples																													
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These tests have been carried out on motor no. 3GV13 11256184 001 , on date 2013-09-25 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																																																								
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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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