



Type Test Report				Date of issue: 4.11.2015																																
Customer:				Serial No.:																																
Customer ref.:				Type: M3AA 100 LB 2 Product Code: 3GAA101520-_DE																																
Rating:		<table border="1"> <thead> <tr> <th>V</th> <th>Hz</th> <th>kW</th> <th>r/min</th> <th>A</th> <th>η [%]</th> <th>Duty</th> </tr> </thead> <tbody> <tr> <td>690</td> <td>Y 50</td> <td>3,00</td> <td>2920</td> <td>3,30</td> <td>0,86</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>3,00</td> <td>2920</td> <td>5,80</td> <td>0,86</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>3,00</td> <td>3530</td> <td>5,10</td> <td>0,84</td> <td>S1</td> </tr> </tbody> </table>							V	Hz	kW	r/min	A	η [%]	Duty	690	Y 50	3,00	2920	3,30	0,86	S1	400	D 50	3,00	2920	5,80	0,86	S1	460	D 60	3,00	3530	5,10	0,84	S1
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690	Y 50	3,00	2920	3,30	0,86	S1																														
400	D 50	3,00	2920	5,80	0,86	S1																														
460	D 60	3,00	3530	5,10	0,84	S1																														
3-Motor		50Hz : IE2 - 86,4%(100%) - 86,1%(75%) - 84,0%(50%)					Eff class IE2																													
Insul.cl.F		60Hz : IE2 - 87,5%(100%)																																		
IP55																																				
Resistance Line		Ambient: 20,1 °C		Insulation resistance at 25,7 °C		Overload																														
U <sub>1</sub> - V <sub>1</sub>		2,44000 Ω		R > 2000 Mohm		Current 150 % 120s																														
U <sub>1</sub> - W <sub>1</sub>		2,43000 Ω		1000 V		Torque 160 % 15s																														
V <sub>1</sub> - W <sub>1</sub>		2,43400 Ω				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	2,7	0,25		3000	0,13																												
Locked rotor test		48,8 D	50	6,1	0,32		0	0,62																												
Thermal test ( 100% load )	9,8	400 D	50	5,8	3,50	3,00	2918	0,87	85,60																											
Partial load points:																																				
~75% load	7,3	400 D	50	4,6	2,64	2,25	2939	0,82	85,30																											
~50% load	4,8	400 D	50	3,6	1,81	1,50	2958	0,72	83,10																											
~25% load	2,4	400 D	50	2,6	0,99	0,75	2977	0,53	75,50																											
Temperature rise at rated load.		[°C]		[K]		Method		Measurement method																												
Stator winding :		45,0		3		1 Resistance																														
Frame :		19,1		3		2 Thermometer																														
Bearing D-end :		30,8		3		3 Thermocouples																														
Ambient Temperature :		25		3																																
<p>These tests have been carried out on motor no. 3GE100210T3002, on date 2010-01-19 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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