



Type Test Report				Date of issue: 4.11.2015																																
Customer:				Serial No.:																																
Customer ref.:				Type: M3AA 100 LC 6 Product Code: 3GAA103530-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>1,50</td> <td>945</td> <td>2,10</td> <td>0,73</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>1,50</td> <td>945</td> <td>3,60</td> <td>0,73</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>1,50</td> <td>1150</td> <td>3,20</td> <td>0,70</td> <td>S1</td> </tr> </tbody> </table>							V	Hz	kW	r/min	A	η [%]	Duty	690	Y 50	1,50	945	2,10	0,73	S1	400	D 50	1,50	945	3,60	0,73	S1	460	D 60	1,50	1150	3,20	0,70	S1
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690	Y 50	1,50	945	2,10	0,73	S1																														
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3-Motor		50Hz : IE2 - 80,3%(100%) - 81,4%(75%) - 80,7%(50%)					Eff class IE2																													
Insul.cl.F		60Hz : IE1 - 83,3%(100%)																																		
IP55																																				
Resistance Line		Ambient: 25,0 °C		Insulation resistance at 23 °C		Overload																														
U <sub>1</sub> - V <sub>1</sub>		8,45000 Ω		R > 2000 Mohm 1000 V		Current 150 % 120s																														
U <sub>1</sub> - W <sub>1</sub>		8,46000 Ω				Torque 160 % 15s																														
V <sub>1</sub> - W <sub>1</sub>		8,46000 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	2,2	0,14		1000	0,10																												
Locked rotor test		106 D	50	3,6	0,37		0	0,56																												
Thermal test ( 100% load )	15,2	400 D	50	3,6	1,89	1,50	944	0,75	79,30																											
Partial load points:																																				
~75% load	11,2	400 D	50	3,0	1,40	1,13	960	0,67	80,50																											
~50% load	7,3	400 D	50	2,4	0,94	0,75	975	0,56	79,70																											
~25% load	3,7	400 D	50	2,0	0,53	0,38	988	0,37	72,10																											
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method																													
Stator winding :				54,4	3		1 Resistance																													
Frame :				27,0	3		2 Thermometer																													
Bearing D-end :				30,0	3		3 Thermocouples																													
Ambient Temperature :		25			3																															
<p>These tests have been carried out on motor no. 3GE081910T0731, on date 2008-06-16 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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