



Type Test Report				Date of issue: 4.11.2015																																
Customer:				Serial No.:																																
Customer ref.:				Type: M3AA 100 LA 8 Product Code: 3GAA104510-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>0,75</td> <td>720</td> <td>1,88</td> <td>0,47</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>0,75</td> <td>720</td> <td>3,20</td> <td>0,47</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>0,75</td> <td>865</td> <td>2,40</td> <td>0,51</td> <td>S1</td> </tr> </tbody> </table>							V	Hz	kW	r/min	A	η [%]	Duty	690	Y 50	0,75	720	1,88	0,47	S1	400	D 50	0,75	720	3,20	0,47	S1	460	D 60	0,75	865	2,40	0,51	S1
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690	Y 50	0,75	720	1,88	0,47	S1																														
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Eff class IE2		50Hz : IE2 - 70,7%(100%) - 67,1%(75%) - 59,9%(50%) 60Hz : IE2 - 74,2%(100%)																																		
Resistance Line		Ambient: 15,4 °C		Insulation resistance at 25 °C		Overload																														
U ₁ - V ₁		15,86000 Ω		R > 2000 Mohm 1000 V		Current 150 % 120s																														
U ₁ - W ₁		15,86000 Ω				Torque 160 % 15s																														
V ₁ - W ₁		15,88000 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	2,3	0,21		750	0,13																												
Locked rotor test		262 D	50	5,5	1,68		0	0,67																												
Thermal test (100% load)	10,0	400 D	50	2,6	1,05	0,75	714	0,58	71,40																											
Partial load points:																																				
~75% load	7,4	400 D	50	2,3	0,81	0,56	723	0,49	69,20																											
~50% load	4,9	400 D	50	2,2	0,60	0,38	732	0,38	63,00																											
~25% load	2,4	400 D	50	2,1	0,39	0,19	741	0,26	48,40																											
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method																													
Stator winding :				43,5	3		1 Resistance																													
Frame :				16,5	3		2 Thermometer																													
Bearing D-end :				16,4	3		3 Thermocouples																													
Ambient Temperature :		25			3																															
<p>These tests have been carried out on motor no. 3GE121110T0001, on date 2012-03-27 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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