



Type Test Report				Date of issue: 2011.12.28																															
Customer:				Serial No.: 3GE081910T0731																															
Customer ref.:				Type: M3AA 100LC 6 Product Code: 3GAA103312-DE																															
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 50</td> <td>1,5</td> <td>945</td> <td>2,00</td> <td>0,73</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>1,5</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>1,5</td> <td>1150</td> <td>3,20</td> <td>0,70</td> <td>S1</td> </tr> </tbody> </table>				V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	1,5	945	2,00	0,73	S1	400	D 50	1,5	945	3,60	0,73	S1	460	D 60	1,5	1150	3,20	0,70	S1
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3~Motor Insul.cl.F IP55				50Hz : IE2 - 80,3(100%) - 81,4(75%) - 80,7(50%) 60Hz : IE1 - 83,3(100%)																															
Resistance				Insulation resistance at 23 °C		Overload																													
Line Ambient: 25,0 °C				R > 2000 Mohm 1000 V		Current 150 % 120s Torque 160 % 15s Speed 120 % 120s																													
U ₁ - V ₁ 8,45000 Ω																																			
U ₁ - W ₁ 8,46000 Ω																																			
V ₁ - W ₁ 8,46000 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		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																														
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																																			
On behalf of manufacturer		Date of test		16.6.2008																															
Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain						Telephone		+34 93 728 85 00																											
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