



Type Test Report				Date of issue: 2011.10.05																															
Customer:				Serial No.: 3GA093307T5502																															
Customer ref.:				Type: M2AA 71B 2 Product Code: 3GAA071002-_SE																															
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>230</td> <td>D 50</td> <td>0,55</td> <td>2790</td> <td>2,20</td> <td>0,78</td> <td>S1</td> </tr> <tr> <td>400</td> <td>Y 50</td> <td>0,55</td> <td>2790</td> <td>1,29</td> <td>0,78</td> <td>S1</td> </tr> <tr> <td>460</td> <td>Y 60</td> <td>0,55</td> <td>3420</td> <td>1,12</td> <td>0,75</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	230	D 50	0,55	2790	2,20	0,78	S1	400	Y 50	0,55	2790	1,29	0,78	S1	460	Y 60	0,55	3420	1,12	0,75	S1
V	Hz	kW	r/min	A	cos φ	Duty																													
230	D 50	0,55	2790	2,20	0,78	S1																													
400	Y 50	0,55	2790	1,29	0,78	S1																													
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Resistance Line Ambient: 28,0 °C U ₁ - V ₁ 25,59000 Ω U ₁ - W ₁ 25,62000 Ω V ₁ - W ₁ 25,62000 Ω				Insulation resistance at 28,7 °C R > 2000 Mohm 1000 V		Overload Current 150 % 120s Torque 160 % 15s 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 Y 50		0,81	0,06		3000	0,10																											
Locked rotor test		105,1 Y 50		1,50	0,12		0	0,44																											
Thermal test (100% load)	1,9	400 Y 50		1,29	0,70	0,55	2790	0,78	78,40																										
Partial load points:																																			
~75% load	1,4	400 Y 50		1,06	0,52	0,41	2841	0,70	79,80																										
~50% load	0,9	400 Y 50		0,90	0,35	0,28	2898	0,56	78,70																										
~25% load	0,4	400 Y 50		0,75	0,19	0,14	2947	0,37	70,90																										
Temperature rise at rated load.				<table border="1"> <thead> <tr> <th>°C</th> <th>[K]</th> <th>Method</th> </tr> </thead> <tbody> <tr> <td>Stator winding :</td> <td>41,2</td> <td>3</td> </tr> <tr> <td>Frame :</td> <td>20,7</td> <td>3</td> </tr> <tr> <td>Bearing D-end :</td> <td>24,3</td> <td>3</td> </tr> <tr> <td>Ambient Temperature :</td> <td>25</td> <td>3</td> </tr> </tbody> </table>		°C	[K]	Method	Stator winding :	41,2	3	Frame :	20,7	3	Bearing D-end :	24,3	3	Ambient Temperature :	25	3	Measurement method 1 Resistance 2 Thermometer 3 Thermocouples														
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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		1.9.2009																															
Tested by Asea Brown Boveri, S.A., Fabrica Motores , 08192 Sant Quirze del Valles , Spain						Telephone +34 93 728 85 00		Telefax +34 93 728 85 33																											

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