



Type Test Report				Date of issue: 4.11.2015																																
Customer:				Serial No.:																																
Customer ref.:				Type: M3AA 112 MB 6 Product Code: 3GAA113320-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>3-Motor</td> <td>690 Y 50</td> <td>2,20</td> <td>955</td> <td>3,00</td> <td>0,72</td> <td>S1</td> </tr> <tr> <td>Insul.cl.F</td> <td>400 D 50</td> <td>2,20</td> <td>955</td> <td>5,30</td> <td>0,72</td> <td>S1</td> </tr> <tr> <td>IP55</td> <td>460 D 60</td> <td>2,20</td> <td>1160</td> <td>5,00</td> <td>0,65</td> <td>S1</td> </tr> </tbody> </table>							V	Hz	kW	r/min	A	η [%]	Duty	3-Motor	690 Y 50	2,20	955	3,00	0,72	S1	Insul.cl.F	400 D 50	2,20	955	5,30	0,72	S1	IP55	460 D 60	2,20	1160	5,00	0,65	S1
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Eff class IE2		50Hz : IE2 - 81,9%(100%) - 81,8%(75%) - 79,2%(50%) 60Hz : IE1 - 84,4%(100%)																																		
Resistance Line		Ambient: 17,8 °C		Insulation resistance at 24,4 °C		Overload																														
U ₁ - V ₁		3,86000 Ω		R > 2000 Mohm		Current 150 % 120s																														
U ₁ - W ₁		3,85800 Ω		1000 V		Torque 160 % 15s																														
V ₁ - W ₁		3,86100 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	4,0	0,23		1000	0,08																												
Locked rotor test		127,9 D	50	7,5	0,88		0	0,53																												
Thermal test (100% load)	22,0	400 D	50	5,6	2,67	2,20	956	0,68	82,40																											
Partial load points:																																				
~75% load	16,3	400 D	50	4,8	2,00	1,65	968	0,59	82,30																											
~50% load	10,7	400 D	50	4,2	1,38	1,10	979	0,47	79,70																											
~25% load	5,3	400 D	50	3,8	0,79	0,55	989	0,30	70,00																											
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method																													
Stator winding :				48,1	3		1 Resistance																													
Frame :				23,3	3		2 Thermometer																													
Bearing D-end :				31,3	3		3 Thermocouples																													
Ambient Temperature :		25			3																															
<p>These tests have been carried out on motor no. 3GE100210S4149, on date 2010-02-10 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																															
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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