



Type Test Report				Date of issue: 4.11.2015																																
Customer:				Serial No.:																																
Customer ref.:				Type: M3AA 112 M 8 Product Code: 3GAA114300-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>690</td> <td>2,70</td> <td>0,70</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>1,50</td> <td>690</td> <td>4,10</td> <td>0,70</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>1,50</td> <td>855</td> <td>3,90</td> <td>0,61</td> <td>S1</td> </tr> </tbody> </table>							V	Hz	kW	r/min	A	η [%]	Duty	690	Y 50	1,50	690	2,70	0,70	S1	400	D 50	1,50	690	4,10	0,70	S1	460	D 60	1,50	855	3,90	0,61	S1
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Eff class IE2		50Hz : IE2 - 74,4%(100%) - 74,1%(75%) - 70,6%(50%) 60Hz : IE1 - 78,6%(100%)																																		
Resistance Line		Ambient: 23,0 °C		Insulation resistance at 25 °C		Overload																														
U ₁ - V ₁		8,15000 Ω		R > 2000 Mohm		Current 150 % 120s																														
U ₁ - W ₁		8,12000 Ω		1000 V		Torque 160 % 15s																														
V ₁ - W ₁		8,13000 Ω		High-voltage test winding		Speed 120 % 120s																														
				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	3,3	0,26		750	0,11																												
Locked rotor test		121 D	50	4,3	0,53		0	0,59																												
Thermal test (100% load)	20,5	400 D	50	4,3	2,01	1,50	698	0,66	74,70																											
Partial load points:																																				
~75% load	15,1	400 D	50	3,8	1,52	1,13	713	0,57	74,40																											
~50% load	9,9	400 D	50	3,3	1,06	0,75	725	0,45	70,90																											
~25% load	4,9	400 D	50	3,2	0,66	0,38	738	0,29	58,00																											
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method																													
Stator winding :				60,6	3		1 Resistance																													
Frame :				36	3		2 Thermometer																													
Bearing D-end :				38	3		3 Thermocouples																													
Ambient Temperature :		25			3																															
<p>These tests have been carried out on motor no. 3GE083611T1508, on date 2008-09-20 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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