



Type Test Report				Date of issue: 4.11.2015																																
Customer:				Serial No.:																																
Customer ref.:				Type: M3AA 90 S 8 Product Code: 3GAA094100-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>0,37</td> <td>695</td> <td>0,96</td> <td>0,54</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>0,37</td> <td>695</td> <td>1,60</td> <td>0,54</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>0,37</td> <td>851</td> <td>1,56</td> <td>0,48</td> <td>S1</td> </tr> </tbody> </table>							V	Hz	kW	r/min	A	η [%]	Duty	690	Y 50	0,37	695	0,96	0,54	S1	400	D 50	0,37	695	1,60	0,54	S1	460	D 60	0,37	851	1,56	0,48	S1
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690	Y 50	0,37	695	0,96	0,54	S1																														
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3-Motor																																				
Insul.cl.F																																				
IP55																																				
Eff class IE2		50Hz : IE2 - 59,4%(100%) - 55,9%(75%) - 47,8%(50%) 60Hz : IE2 - 62,9%(100%)																																		
Resistance Line		Ambient: 10,0 °C		Insulation resistance at 12 °C		Overload																														
U ₁ - V ₁		34,31000 Ω		R > 2000 Mohm 1000 V		Current 150 % 120s																														
U ₁ - W ₁		34,30000 Ω				Torque 160 % 15s																														
V ₁ - W ₁		34,33000 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	1,53	0,20		750	0,19																												
Locked rotor test		170 D	50	1,70	0,31		0	0,62																												
Thermal test (100% load)	5,1	400 D	50	1,67	0,65	0,37	693	0,56	57,30																											
Partial load points:																																				
~75% load	3,8	400 D	50	1,59	0,52	0,28	709	0,47	54,00																											
~50% load	2,5	400 D	50	1,51	0,41	0,19	722	0,39	46,50																											
~25% load	1,2	400 D	50	1,44	0,29	0,09	736	0,29	30,80																											
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method																													
Stator winding :				66,5	3		1 Resistance																													
Frame :				33	3		2 Thermometer																													
Bearing D-end :				35	3		3 Thermocouples																													
Ambient Temperature :		25			3																															
<p>These tests have been carried out on motor no. 3GE080109T3708, on date 2008-01-21 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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