



Type Test Report				Date of issue: 4.11.2015																																
Customer:				Serial No.:																																
Customer ref.:				Type: M3AA 90 L 8 Product Code: 3GAA094500-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>0,55</td> <td>660</td> <td>1,57</td> <td>0,58</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>0,55</td> <td>660</td> <td>2,30</td> <td>0,58</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>0,55</td> <td>811</td> <td>2,15</td> <td>0,49</td> <td>S1</td> </tr> </tbody> </table>							V	Hz	kW	r/min	A	η [%]	Duty	690	Y 50	0,55	660	1,57	0,58	S1	400	D 50	0,55	660	2,30	0,58	S1	460	D 60	0,55	811	2,15	0,49	S1
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Eff class IE2		50Hz : IE2 - 61,7%(100%) - 59,5%(75%) - 53,0%(50%) 60Hz : IE2 - 65,5%(100%)																																		
Resistance Line		Ambient: 18,0 °C		Insulation resistance at 25 °C		Overload																														
U ₁ - V ₁		21,84000 Ω		R > 2000 Mohm		Current 150 % 120s																														
U ₁ - W ₁		21,84000 Ω		1000 V		Torque 160 % 15s																														
V ₁ - W ₁		21,85000 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	2,1	0,23		750	0,16																												
Locked rotor test		154,6 D	50	2,3	0,39		0	0,63																												
Thermal test (100% load)	7,6	400 D	50	2,3	0,88	0,55	695	0,54	62,80																											
Partial load points:																																				
~75% load	5,5	400 D	50	2,2	0,69	0,41	710	0,45	59,80																											
~50% load	3,6	400 D	50	2,1	0,53	0,28	720	0,35	52,20																											
~25% load	1,8	400 D	50	2,2	0,39	0,14	737	0,25	35,70																											
Temperature rise at rated load.		[°C]		[K]		Method		Measurement method																												
Stator winding :				63,5		3		1 Resistance																												
Frame :				36,9		3		2 Thermometer																												
Bearing D-end :				39,4		3		3 Thermocouples																												
Ambient Temperature :		25				3																														
<p>These tests have been carried out on motor no. 3GE081609T5508, on date 2009-03-11 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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