



Type Test Report				Date of issue: 4.11.2015																																
Customer:				Serial No.:																																
Customer ref.:				Type: M3AA 90 L 8 Product Code: 3GAA094500-_SE																																
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>400</td> <td>Y 50</td> <td>0,55</td> <td>660</td> <td>2,03</td> <td>0,58</td> <td>S1</td> </tr> <tr> <td>230</td> <td>D 50</td> <td>0,55</td> <td>660</td> <td>4,03</td> <td>0,58</td> <td>S1</td> </tr> <tr> <td>460</td> <td>Y 60</td> <td>0,55</td> <td>810</td> <td>2,10</td> <td>0,57</td> <td>S1</td> </tr> </tbody> </table>							V	Hz	kW	r/min	A	η [%]	Duty	400	Y 50	0,55	660	2,03	0,58	S1	230	D 50	0,55	660	4,03	0,58	S1	460	Y 60	0,55	810	2,10	0,57	S1
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Eff class IE2		50Hz : IE2 - 61,7%(100%) - 62,1%(75%) - 58,0%(50%) 60Hz : IE2 - 63,8%(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		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	2,1	0,23		750	0,16																												
Locked rotor test		154,6 Y	50	2,3	0,39		0	0,63																												
Thermal test (100% load)	7,6	400 Y	50	2,3	0,88	0,55	695	0,54	62,80																											
Partial load points:																																				
~75% load	5,5	400 Y	50	2,2	0,69	0,41	710	0,45	59,80																											
~50% load	3,6	400 Y	50	2,1	0,53	0,28	720	0,35	52,20																											
~25% load	1,8	400 Y	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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