



Type Test Report				Date of issue: 4.11.2015																																
Customer:				Serial No.:																																
Customer ref.:				Type: M3AA 100 LB 8 Product Code: 3GAA104520-_SE																																
Rating:		<table border="1"> <thead> <tr> <th>V</th> <th>Hz</th> <th>kW</th> <th>r/min</th> <th>A</th> <th><math>\eta</math> [%]</th> <th>Duty</th> </tr> </thead> <tbody> <tr> <td>400</td> <td>Y 50</td> <td>1,10</td> <td>695</td> <td>3,10</td> <td>0,66</td> <td>S1</td> </tr> <tr> <td>230</td> <td>D 50</td> <td>1,10</td> <td>695</td> <td>5,50</td> <td>0,66</td> <td>S1</td> </tr> <tr> <td>460</td> <td>Y 60</td> <td>1,10</td> <td>860</td> <td>3,10</td> <td>0,57</td> <td>S1</td> </tr> </tbody> </table>							V	Hz	kW	r/min	A	$\eta$ [%]	Duty	400	Y 50	1,10	695	3,10	0,66	S1	230	D 50	1,10	695	5,50	0,66	S1	460	Y 60	1,10	860	3,10	0,57	S1
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3-Motor		50Hz : IE2 - 76,0%(100%) - 74,9%(75%) - 70,9%(50%)																																		
Insul.cl.F		60Hz : IE2 - 77,4%(100%)																																		
IP55																																				
Eff class IE2																																				
Resistance Line		Ambient: 26,0 °C		Insulation resistance at 26 °C		Overload																														
U <sub>1</sub> - V <sub>1</sub>		11,09000 $\Omega$		R > 2000 Mohm 1000 V		Current 150 % 120s																														
U <sub>1</sub> - W <sub>1</sub>		11,10000 $\Omega$				Torque 160 % 15s																														
V <sub>1</sub> - W <sub>1</sub>		11,10000 $\Omega$				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 $\varphi$	$\eta$ [%]																											
No load test		400 Y 50	50	2,9	0,24		750	0,12																												
Locked rotor test		128 Y 50	50	3,5	0,47		0	0,61																												
Thermal test ( 100% load )	15,0	400 Y 50	50	3,4	1,51	1,10	702	0,63	72,90																											
Partial load points:																																				
~75% load	11,0	400 Y 50	50	3,1	1,15	0,83	715	0,53	71,70																											
~50% load	7,2	400 Y 50	50	2,8	0,82	0,55	727	0,42	67,20																											
~25% load	3,6	400 Y 50	50	2,6	0,51	0,28	738	0,28	53,70																											
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method																													
Stator winding :				56,3	3		1 Resistance																													
Frame :				30	3		2 Thermometer																													
Bearing D-end :				35	3		3 Thermocouples																													
Ambient Temperature :		25			3																															
<p>These tests have been carried out on motor no. 3GE082710T1108, on date 2008-07-23 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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