



Type Test Report				Date of issue: 4.11.2015																																
Customer:				Serial No.:																																
Customer ref.:				Type: M3AA 90 LB 6 Product Code: 3GAA093520-_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>0,75</td> <td>930</td> <td>1,13</td> <td>0,71</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>0,75</td> <td>930</td> <td>1,96</td> <td>0,71</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>0,75</td> <td>1140</td> <td>1,71</td> <td>0,67</td> <td>S1</td> </tr> </tbody> </table>							V	Hz	kW	r/min	A	η [%]	Duty	690	Y 50	0,75	930	1,13	0,71	S1	400	D 50	0,75	930	1,96	0,71	S1	460	D 60	0,75	1140	1,71	0,67	S1
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Eff class IE2		50Hz : IE2 - 77,6%(100%) - 78,0%(75%) - 75,6%(50%) 60Hz : IE2 - 79,6%(100%)																																		
Resistance Line		Ambient: 24,0 °C		Insulation resistance at 21 °C		Overload																														
U <sub>1</sub> - V <sub>1</sub>		18,82000 Ω		R > 2000 Mohm 1000 V		Current 150 % 120s																														
U <sub>1</sub> - W <sub>1</sub>		18,83000 Ω				Torque 160 % 15s																														
V <sub>1</sub> - W <sub>1</sub>		18,81000 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	1,25	0,10		1000	0,12																												
Locked rotor test		111 D	50	2,00	0,26		0	0,67																												
Thermal test ( 100% load )	7,7	400 D	50	1,93	0,98	0,75	931	0,73	76,50																											
Partial load points:																																				
~75% load	5,6	400 D	50	1,64	0,73	0,56	950	0,64	76,90																											
~50% load	3,7	400 D	50	1,44	0,51	0,38	968	0,51	74,40																											
~25% load	1,8	400 D	50	1,31	0,30	0,19	985	0,33	63,10																											
Temperature rise at rated load.		[°C]		[K]	Method		Measurement method																													
Stator winding :				37,1	3		1 Resistance																													
Frame :				21,0	3		2 Thermometer																													
Bearing D-end :				21,0	3		3 Thermocouples																													
Ambient Temperature :		25			3																															
<p>These tests have been carried out on motor no. 3GE081909T0732, on date 2008-06-13 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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