



Type Test Report				Date of issue: 4.11.2015																																
Customer:				Serial No.:																																
Customer ref.:				Type: M3AA 90 LD 4 Product Code: 3GAA092540-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>1,50</td> <td>1435</td> <td>1,96</td> <td>0,76</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>1,50</td> <td>1435</td> <td>3,30</td> <td>0,76</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 50</td> <td>1,50</td> <td>1750</td> <td>3,00</td> <td>0,72</td> <td>S1</td> </tr> </tbody> </table>							V	Hz	kW	r/min	A	η [%]	Duty	690	Y 50	1,50	1435	1,96	0,76	S1	400	D 50	1,50	1435	3,30	0,76	S1	460	D 50	1,50	1750	3,00	0,72	S1
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690	Y 50	1,50	1435	1,96	0,76	S1																														
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460	D 50	1,50	1750	3,00	0,72	S1																														
Eff class IE2		50Hz : IE2 - 84,2%(100%) - 84,1%(75%) - 81,9%(50%) 60Hz : IE2 - 85,4%(100%)																																		
Resistance Line		Ambient: 16,6 °C		Insulation resistance at 24,2 °C		Overload																														
U <sub>1</sub> - V <sub>1</sub>		5,85500 Ω		R > 2000 Mohm		Current 150 % 120s																														
U <sub>1</sub> - W <sub>1</sub>		5,85400 Ω		1000 V		Torque 160 % 15s																														
V <sub>1</sub> - W <sub>1</sub>		5,85500 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	2,3	0,15		1500	0,10																												
Locked rotor test		61,7 D	50	3,3	0,22		0	0,63																												
Thermal test ( 100% load )	9,9	400 D	50	3,4	1,79	1,50	1440	0,75	84,00																											
Partial load points:																																				
~75% load	7,4	400 D	50	2,9	1,35	1,13	1455	0,67	83,60																											
~50% load	4,9	400 D	50	2,5	0,92	0,75	1471	0,53	81,10																											
~25% load	2,4	400 D	50	2,2	0,53	0,38	1485	0,34	71,90																											
Temperature rise at rated load.		[°C]		[K]		Method		Measurement method																												
Stator winding :				26,3		3		1 Resistance																												
Frame :				18,3		3		2 Thermometer																												
Bearing D-end :				20,9		3		3 Thermocouples																												
Ambient Temperature :		25				3																														
<p>These tests have been carried out on motor no. 3GE100109T1504, on date 2010-01-21 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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