



Type Test Report				Date of issue: 2015-03-16																															
Customer:				Serial No.: 3G1T12310000012824																															
Customer ref.:				Type: M1AA 180 MLB 4 Product Code: 3GAA182062-_DA																															
Rating:		<table border="1"> <thead> <tr> <th>V</th> <th>Hz</th> <th>kW</th> <th>r/min</th> <th>A</th> <th>cos φ</th> <th>Duty</th> </tr> </thead> <tbody> <tr> <td>690</td> <td>Y 50</td> <td>22.0</td> <td>1455</td> <td>23.6</td> <td>0,86</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>22.0</td> <td>1455</td> <td>40.9</td> <td>0,86</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>22.0</td> <td>1760</td> <td>36.4</td> <td>0,84</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	22.0	1455	23.6	0,86	S1	400	D 50	22.0	1455	40.9	0,86	S1	460	D 60	22.0	1760	36.4	0,84	S1
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3~Motor																																			
Insul.cl.F																																			
IP55																																			
Eff class IE1		50Hz : IE1-89.9(100%)-90.1(75%)-89.6(50%) 60Hz :																																	
Resistance		Ambient: 25 °C		Insulation resistance at 25 °C		Overload																													
Line				R > 2000 Mohm 1000 V		Current 150% 120s Torque 160% 15s Speed 120% 120s																													
U ₁ - V ₁		0,36100 Ω																																	
U ₁ - W ₁		0,36200 Ω																																	
V ₁ - W ₁		0,36200 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]	η[r/min]	cos φ	η [%]																										
No load test		400 D	50	19,12	0,96		1500	0,07																											
Locked rotor test		77,9 D	50	22,9	1,48		0	0,48																											
Thermal test (100% load)	143,2	400 D	50	41,30	24,44	21,97	1465	0,85	89,91																										
Partial load points:																																			
~75% load	107,4	400 D	50	33,82	18,44	16,48	1473	0,78	90,16																										
~50% load	71,6	400 D	50	26,40	12,53	10,99	1483	0,67	89,64																										
~25% load	35,8	400 D	50	21,28	6,78	5,49	1490	0,46	80,99																										
Temperature rise at rated load.		[°C]		[K]		Method		Measurement method																											
Stator winding :		58,3		3				1 Resistance																											
Frame :								2 Thermometer																											
Bearing D-end :								3 Thermocouples																											
Ambient Temperature :		25		3																															
Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1. PLL determined from residual loss.																																			
On behalf of customer																																			
On behalf of manufacturer		Date of test		2012-08-03																															

Computer print-out valid without signature.