



Type Test Report				Date of issue: 2015-03-16																															
Customer:				Serial No.: 3G1T13110000012453																															
Customer ref.:				Type: M1AA 180 MLA 8 Product Code: 3GAA184061-_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>11.0</td> <td>720</td> <td>14.6</td> <td>0,74</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>11.0</td> <td>720</td> <td>25.4</td> <td>0,74</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>11.0</td> <td>870</td> <td>22.6</td> <td>0,70</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	11.0	720	14.6	0,74	S1	400	D 50	11.0	720	25.4	0,74	S1	460	D 60	11.0	870	22.6	0,70	S1
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3~Motor																																			
Insul.cl.F																																			
IP55																																			
Eff class IE1		50Hz : IE1-85(100%)-83(75%)-82.8(50%) 60Hz : IE1-87.3(100%)-85.2(75%)-85(50%)																																	
Resistance		Ambient: 25 °C Line U ₁ - V ₁ 0,97500 Ω U ₁ - W ₁ 0,97500 Ω V ₁ - W ₁ 0,97400 Ω				Insulation resistance at 25 °C R > 2000 Mohm 1000 V																													
						Overload Current 150% 120s Torque 160% 15s 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	16,90	0,71		750	0,06																											
Locked rotor test		139 D	50	14,7	1,53		0	0,44																											
Thermal test (100% load)	145,3	400 D	50	25,36	12,91	11,02	724	0,74	85,3																										
Partial load points:																																			
~75% load	109,0	400 D	50	21,5	9,83	8,26	731	0,66	84,03																										
~50% load	72,6	400 D	50	18,60	6,96	5,51	738	0,52	82,19																										
~25% load	36,3	400 D	50	16,80	4,07	2,75	744	0,35	67,60																										
Temperature rise at rated load.		<table border="1"> <thead> <tr> <th></th> <th>[°C]</th> <th>[K]</th> <th>Method</th> </tr> </thead> <tbody> <tr> <td>Stator winding :</td> <td></td> <td>61,0</td> <td>3</td> </tr> <tr> <td>Frame :</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Bearing D-end :</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Ambient Temperature :</td> <td>25</td> <td></td> <td>3</td> </tr> </tbody> </table>					[°C]	[K]	Method	Stator winding :		61,0	3	Frame :				Bearing D-end :				Ambient Temperature :	25		3	Measurement method 1 Resistance 2 Thermometer 3 Thermocouples									
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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		2013-03-15																															

Computer print-out valid without signature.