



Type Test Report				Date of issue: 2015-03-16																															
				Serial No.: 3G1T10110000010976																															
Customer:				Type: M1AA 160 MLA 8 Product Code: 3GAA164061-_DA																															
Customer ref.:																																			
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>4.0</td> <td>720</td> <td>6.3</td> <td>0,63</td> <td>S1</td> </tr> <tr> <td>400</td> <td>D 50</td> <td>4.0</td> <td>720</td> <td>11.0</td> <td>0,63</td> <td>S1</td> </tr> <tr> <td>460</td> <td>D 60</td> <td>4.0</td> <td>870</td> <td>10.0</td> <td>0,60</td> <td>S1</td> </tr> </tbody> </table>						V	Hz	kW	r/min	A	cos φ	Duty	690	Y 50	4.0	720	6.3	0,63	S1	400	D 50	4.0	720	11.0	0,63	S1	460	D 60	4.0	870	10.0	0,60	S1
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3~Motor																																			
Insul.cl.F																																			
IP55																																			
Eff class IE1		50Hz : IE1-82.4(100%)-79.1(75%)-78.3(50%) 60Hz : IE1-83.7(100%)-80.3(75%)-79.5(50%)																																	
Resistance		Insulation resistance at 25 °C				Overload																													
Line		R > 2000 Mohm 1000 V				Current 150% 120s																													
U ₁ - V ₁		Ambient: 25 °C				Torque 160% 15s																													
U ₁ - W ₁		2,72000 Ω				Speed 120% 120s																													
V ₁ - W ₁		2,71000 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	10,43	0,53		750	0,07																											
Locked rotor test		116 D	50	11,2	1,17		0	0,52																											
Thermal test (100% load)	53,2	400 D	50	11,20	4,75	4,06	729	0,62	83,89																										
Partial load points:																																			
~75% load	39,9	400 D	50	9,69	3,62	3,07	736	0,56	81,63																										
~50% load	26,6	400 D	50	8,02	2,41	2,05	739	0,47	78,65																										
~25% load	13,3	400 D	50	7,71	1,39	1,01	746	0,31	60,99																										
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>40,9</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 :		40,9	3	Frame :				Bearing D-end :				Ambient Temperature :	25		3	Measurement method									
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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		2010-03-19																															

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