



V6.0.1 - 1.0.6486.23853

Type Test Report				Date of Issue: 27/10/2017																					
Customer:				Serial No.: 0147																					
Customer ref.:				Tag No.: Order No.: Type: M3MA 90 MB 2 Product Code: 3GMA091320-xSx Protection type: Cert. No.:																					
Rating: 3~Motor Ins. Class F IP69K Eff class NEMA Premium Efficiency NEMA NOM EFF 86.5%				<table border="1"> <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> <tr> <td>460</td> <td>Y 60</td> <td>2.2</td> <td>3525</td> <td>3.49</td> <td>0.87</td> <td>S1</td> </tr> </table>								V	Hz	kW	r/min	A	cos φ	Duty	460	Y 60	2.2	3525	3.49	0.87	S1
V	Hz	kW	r/min	A	cos φ	Duty																			
460	Y 60	2.2	3525	3.49	0.87	S1																			
Resistance Line Ambient: 21 °C <table border="1"> <tr> <td>U₁ - V₁</td> <td>2.84900 Ω</td> </tr> <tr> <td>U₁ - W₁</td> <td>2.85300 Ω</td> </tr> <tr> <td>V₁ - W₁</td> <td>2.85800 Ω</td> </tr> </table>				U ₁ - V ₁	2.84900 Ω	U ₁ - W ₁	2.85300 Ω	V ₁ - W ₁	2.85800 Ω	Insulation resistance at 20 °C R > 2000 Mohm 1000 V															
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				High-voltage test 2400 V				1 s																	
Test	Torque [Nm]	Line U[V]	f[Hz]	Input I[A]	P1 [W]	Output P2 [W]	n[r/min]	cos φ	h [%]	s [%]															
No-load test		460.2 Y 60		1.53	115.83			0.09																	
Thermal test (100% load)	5.9	463.5 Y 60		3.51	2453.9	2217.7	3551	0.87	90.4	1.98															
Partial load points:																									
~75% load	4.5	461.3 Y 60		2.83	1849.6	1667.0	3567	0.82	90.1	1.47															
~50% load	3.0	463.3 Y 60		2.24	1285.4	1138.4	3585	0.72	88.5	1.00															
~25% load	1.4	468.0 Y 60		1.74	632.4	508.1	3607	0.45	81.3	0.42															
Temperature rise at rated load.				[°C]	[K]	Method	Measurement method																		
Stator winding :				85	1	1 Resistance																			
Frame :				108	2	2 Thermocouples																			
Ambient Temperature :				26	2	3 Thermometer																			
Tested according to IEEE-112 Method B.																									
On behalf of customer																									
On behalf of manufacturer Date of test: 25/10/2017																									
Tested by ABB S.p.A. - RMMG - 20010 Vittuone (MI) Italy																									

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