



V6.0.1 - 1.0.6486.23853

Type Test Report					Date of Issue: 28/11/2017							
Customer:					Serial No.: 0149							
					Tag No.: Order No.: Type: M3MA 90 MB 4 Product Code: 3GMA092320-xSx Protection type: Cert. No.:							
Customer ref.:												
Rating:												
					V	Hz	kW	r/min	A	cos ϕ	Duty	
3~Motor Ins. Class F IP69K Eff class NEMA Premium Efficiency NEMA NOM EFF 86.5%					460	Y 60	1.5	1744	2.85	0.85	S1	
Resistance Line U ₁ - V ₁ 5.52800 Ω U ₁ - W ₁ 5.53100 Ω V ₁ - W ₁ 5.52700 Ω Ambient: 28 °C					Insulation resistance at 20 °C							
					R > 2000 Mohm 1000 V							
					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		458.8 Y	60	1.11	85.12			0.10				
Thermal test (100% load)	8.1	452.2 Y	60	2.54	1699.7	1503.1	1755	0.85	88.5	3.05		
Partial load points:												
~75% load	6.1	455.9 Y	60	2.03	1287.2	1139.7	1769	0.80	87.8	2.31		
~50% load	4.0	457.1 Y	60	1.59	870.7	759.4	1784	0.70	86.0	1.47		
~25% load	1.9	458.6 Y	60	1.26	469.2	377.9	1799	0.48	78.2	0.67		
Temperature rise at rated load.					[°C]	[K]	Method	Measurement method				
Stator winding :					81	1		1 Resistance				
Frame :					100	2		2 Thermocouples				
Ambient Temperature :					27	2		3 Thermometer				
Tested according to IEEE-112 Method B.												
On behalf of customer												
On behalf of manufacturer Date of test: 20/07/2017												
Tested by ABB S.p.A. - RMMG - 20010 Vittuone (MI) Italy												

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