



V6.0.1 - 1.0.6486.23853

Type Test Report				Date of Issue: 06/02/2018							
Customer:				Serial No.: 0140							
				Tag No.: Order No.: Type: M3MA 80 MB 2 Product Code: 3GMA081320-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 77%				460	Y 60	0.75	3504	1.26	0.87	S1	
Resistance Line U ₁ - V ₁ 11.57500 Ω U ₁ - W ₁ 11.57700 Ω V ₁ - W ₁ 11.58000 Ω Ambient: 20 °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		459.2 Y	60	0.55	81.97			0.19			
Thermal test (100% load)	2.0	461.7 Y	60	1.28	885.1	741.8	3524	0.87	83.7	2.73	
Partial load points:											
~75% load	1.4	457.8 Y	60	1.01	650.0	537.5	3551	0.82	82.9	1.98	
~50% load	1.0	458.2 Y	60	0.80	455.9	360.5	3576	0.72	79.1	1.35	
~25% load	0.5	458.6 Y	60	0.64	263.7	178.5	3597	0.54	68.9	0.67	
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :					80	1		1 Resistance			
Frame :					90	2		2 Thermocouples			
Bearing D-end :					87	2		3 Thermometer			
Bearing N-end :					86	2					
Ambient Temperature :					20	2					
Tested according to IEEE-112 Method B.											
On behalf of customer											
On behalf of manufacturer Date of test: 05/02/2018											
Tested by ABB S.p.A. - RMMG - 20010 Vittuone (MI) Italy											

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