



V6.0.1 - 1.0.6486.23853

Type Test Report				Date of Issue: 23/01/2018							
Customer:				Serial No.: 0156							
Customer ref.:				Tag No.:							
				Order No.:							
				Type: M3MA 80 MB 4							
				Product Code: 3GMA082320-xSx							
				Protection type:							
				Cert. No.:							
Rating:											
				V	Hz	kW	r/min	A	cos φ	Duty	
3~Motor				460	Y 60	0.55	1742	1.17	0.76	S1	
Ins. Class F											
IP69K											
Eff class NEMA Premium Efficiency											
NEMA NOM EFF 81.1%											
Resistance				Insulation resistance at 20 °C							
Line Ambient: 22 °C				R > 2000 Mohm 1000 V							
U ₁ - V ₁ 14.34700 Ω											
U ₁ - W ₁ 14.35200 Ω											
V ₁ - W ₁ 14.38400 Ω											
				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		0.66	65.38			0.12			
Thermal test (100% load)	3.0	458.9 Y 60		1.09	664.1	557.5	1750	0.76	84.0	3.33	
Partial load points:											
~75% load	2.2	462.7 Y 60		0.93	505.1	417.3	1768	0.68	82.4	2.39	
~50% load	1.4	464.4 Y 60		0.79	341.5	266.7	1784	0.54	77.8	1.52	
~25% load	0.7	464.6 Y 60		0.71	193.3	125.2	1797	0.34	65.4	0.81	
Temperature rise at rated load.				[°C]	[K]	Method		Measurement method			
Stator winding :				58	1			1 Resistance			
Frame :				79	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: 23/01/2018							
Tested by ABB S.p.A. - RMMG - 20010 Vittuone (MI) Italy											

Computer print-out valid without signature.