



V6.0.1 - 1.0.6486.23853

Type Test Report					Date of Issue: 28/11/2017										
					Serial No.: 0142										
Customer:					Tag No.:										
					Order No.:										
					Type: M3MA 80 MA 4										
					Product Code: 3GMA082310-xSx										
					Protection type:										
					Cert. No.:										
Customer ref.:															
Rating:															
					V	Hz	kW	r/min	A	cos φ	Duty				
3~Motor					460	Y	60	0.37	1758	0.91	0.64	S1			
Ins. Class F															
IP69K															
Eff class NEMA Premium Efficiency															
NEMA NOM EFF 78.2%															
Resistance					Insulation resistance at 20 °C										
Line					R > 2000 Mohm 1000 V										
Ambient: 26 °C															
U ₁ - V ₁ 19.52200 Ω															
U ₁ - W ₁ 19.49900 Ω															
V ₁ - W ₁ 19.53100 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		461.8 Y	60	0.68	63.64			0.12							
Thermal test (100% load)	2.0	459.3 Y	60	0.90	459.4	375.2	1769	0.64	81.6	2.31					
Partial load points:															
~75% load	1.5	460.8 Y	60	0.82	364.8	289.2	1779	0.56	79.0	1.79					
~50% load	1.0	461.6 Y	60	0.75	258.4	189.7	1789	0.43	73.2	1.20					
~25% load	0.5	462.0 Y	60	0.70	152.5	87.8	1799	0.27	57.2	0.66					
Temperature rise at rated load.					[°C]	[K]	Method		Measurement method						
Stator winding :					56	1			1 Resistance						
Frame :					74	2			2 Thermocouples						
Bearing D-end :					66	2			3 Thermometer						
Bearing N-end :					70	2									
Ambient Temperature :					24	2									
Tested according to IEEE-112 Method B.															
On behalf of customer															
On behalf of manufacturer															
Date of test: 26/05/2017															
Tested by ABB S.p.A. - RMMG - 20010 Vittuone (MI) Italy															

Computer print-out valid without signature.