V6.0.1 - 1.0.6486.23853

Type Test Report

Date of Issue: 24/11/2017

Serial No.: 0141

Customer:

Customer ref.:

Tag No.:
Order No.:
Type: M3MA 80 MC 2
Product Code: 3GMA081330-xSA
Protection type:
Cert. No.:

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	460	Y	60	1.1	3500	1.80	0.89	S1

Ins. Class F
IP69K

Eff class NEMA Premium Efficiency
NEMA NOM EFF 84%

Resistance
Line — Ambient: 28 °C

U_1 - V_1	7.84400 Ω
U_1 - W_1	7.84000 Ω
V_1 - W_1	7.84300 Ω

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		465.4	Y	60	0.71	92.15			0.16		
Thermal test (100% load)	3.0	457.3	Y	60	1.87	1311.5	1109.5	3513	0.89	84.6	2.97
Partial load points:											
~75% load	2.2	460.5	Y	60	1.44	965.6	817.6	3545	0.85	83.9	2.07
~50% load	1.6	460.5	Y	60	1.16	719.9	599.1	3568	0.78	83.2	1.47
~25% load	1.3	460.6	Y	60	1.04	609.3	497.8	3576	0.73	81.1	1.26

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		98	1
Frame :	115		2
Bearing D-end :	104		2
Bearing N-end :	111		2
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

Tested according to IEEE-112 Method B.

On behalf of customer

On behalf of manufacturer Date of test: 13/03/2017

Tested by ABB S.p.A. - RMMG - 20010 Vittuone (MI) Italy

Computer print-out valid without signature.

ABB, Motors and Generators
www abb.com/motors&generators

Telephone +358 10 2211
Telefax +358 10 22 47372