V6.0.1 - 1.0.6486.23853

Type Test Report

Date of Issue: 11/12/2017

Serial No.: 0148

Customer:

Customer ref.:

Tag No.:
Order No.:
Type: M3MA 90 MA 4
Product Code: 3GMA092310-xSx
Protection type:
Cert. No.:

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	460	Y	60	1.1	1751	2.10	0.83	S1

Ins. Class F
IP69K

Eff class NEMA Premium Efficiency
NEMA NOM EFF 86.5%

Resistance
Line Ambient: 20 °C

U_1 - V_1	7.74300 Ω
U_1 - W_1	7.74700 Ω
V_1 - W_1	7.74600 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		457.6	Y	60	0.94	85.04			0.11		
Thermal test (100% load)	6.1	460.2	Y	60	1.96	1292.8	1120.7	1758	0.83	86.7	2.83
Partial load points:											
~75% load	4.4	466.2	Y	60	1.57	960.4	829.2	1776	0.76	85.5	1.96
~50% load	2.9	467.4	Y	60	1.28	663.9	557.0	1788	0.64	83.0	1.34
~25% load	1.5	467.3	Y	60	1.06	369.4	277.3	1799	0.43	74.1	0.70

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		75	1
Frame :	94		2
Bearing D-end :	86		2
Bearing N-end :	94		2
Ambient Temperature :	24		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: 06/12/2017

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

Computer print-out valid without signature.

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