Type Test Report

Date of issue: 2015-06-10

Serial No.: 3G1S14301429940001

Customer:

Customer ref.:

Type: M3AA 2000MLA 2

Product Code: 3GAA201051-ADL

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	400	D	50	30,0	2957	52,7	0,88	S1
Insul.cl.F	690	Y	50	30,0	2957	30,5	0,88	S1
IP55	415	D	50	30,0	2960	52,0	0,86	S1

Eff class IE3

50Hz : IE3 - 93,3(100%) - 93,9(75%) - 93,6(50%)

Resistance

Line Ambient: 22,8 ºC

U_1 - V_1 0,13324 Ω

U_1 - W_1 0,13301 Ω

V_1 - W_1 0,13339 Ω

Insulation resistance at 23 ºC

R > 2000 Mohm 1000 V

Overload

Current	150%	120s
Torque	160%	15s
Speed	120%	120s

High-voltage test winding 2400 V 60 s

Test	Torque [Nm]	Line U[V]		f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos φ	η [%]
No load test		401,1	D	50	16,1	0,66		3000	0,06	
Locked rotor test		58	D	50	53,0	2,22			0,42	
Thermal test (100% load)	96,9	400	D	50	52,7	32,15	30,00	2957	0,88	93,3
Partial load points:										
~75% load	72,4	400	D	50	40,6	23,98	22,50	2969	0,85	93,8
~50% load	48,1	400	D	50	29,7	16,01	15,00	2981	0,78	93,7
~25% load	23,9	400	D	50	20,6	8,24	7,50	2991	0,58	91,0

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		65,2	1
Frame :		32,8	2
Bearing D-end :		32	2
Ambient Temperature :	23		2

Measurement method

1 Resistance

2 Thermometer

3 Thermocouples

Manufactured and tested in accordance with rules of IEC 60034-1 and IEC 60034-2-1.

PLL determined from residual loss.

On behalf of customer

On behalf of manufacturer Date of test 2014-08-21

Tested by ABB AB, LV Motors, 721 70 Västerås, Sweder

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