Type Test Report

Date of issue: 1.9.2015

Serial No.:

Customer:

Customer ref.:

Type: M3AA 250SMA 6

Product Code: 3GAA253210-ADG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	37,0	989	40,5	0,82	S1
Insul.cl.F	400	D	50	37,0	989	69,9	0,82	S1
IP55	415	D	50	37,0	990	69,1	0,80	S1
	440	D	60	37,0	1186	62,5	0,83	S1
	460	D	60	37,0	1191	61,2	0,81	S1

Eff class IE2

50Hz : IE2 - 93,1(100%) - 93,8(75%) - 93,4(50%)

60Hz : IE2 - 93,5(100%)

Resistance

Line — Ambient: 24,4 °C

U_1 - V_1	0,13290 Ω
U_1 - W_1	0,13130 Ω
V_1 - W_1	0,13140 Ω

Insulation resistance at 25 °C

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		401,4	D	50	28,2	0,82		1000	0,04	
Locked rotor test		88,5	D	50	74,4	4,23		0	0,37	
Thermal test (100% load)	357,0	400	D	50	70,5	39,66	37,00	990	0,81	93,30
Partial load points:										
~75% load	269,9	400	D	50	56,1	29,92	28,06	993	0,77	93,77
~50% load	181,0	400	D	50	43,1	20,18	18,87	996	0,68	93,53
~25% load	92,2	400	D	50	32,8	10,62	9,64	998	0,47	90,82

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		66,4	1
Frame :		28,6	2
Bearing D-end :		37,4	2
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GV1010762561001, on date 2009-09-11 which is identical in electrical design with the above.

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

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

Telephone +46 (0)21 32 90 00

Telefax +46 (0)21 32 90 22

Computer print-out valid without signature.