Type Test Report

Date of issue: 1.9.2015

Serial No.:

Customer:

Customer ref.:

Type: M3AA 250SMB 4

Product Code: 3GAA252220-ADG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	75,0	1478	77,7	0,85	S1
Insul.cl.F	400	D	50	75,0	1478	134,0	0,85	S1
IP55	415	D	50	75,0	1480	133,0	0,83	S1
	440	D	60	75,0	1779	119,0	0,87	S1
	460	D	60	75,0	1782	116,0	0,85	S1

Eff class IE2

50Hz : IE2 - 94,4(100%) - 95,1(75%) - 94,8(50%)

60Hz : IE2 - 94,6(100%)

Resistance

Line — Ambient: 21,4 °C

U_1 - V_1	0,04409 Ω
U_1 - W_1	0,04387 Ω
V_1 - W_1	0,04481 Ω

Insulation resistance at 22,6 °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		401,2	D	50	48,7	1,2		1500	0,04	
Locked rotor test		73,1	D	50	130,7	6,39			0,39	
Thermal test (100% load)	484,6	400	D	50	135,3	79,24	75,00	1478	0,85	94,65
Partial load points:										
~75% load	363,8	400	D	50	106,3	59,41	56,53	1484	0,81	95,15
~50% load	243,0	400	D	50	80,2	39,86	37,91	1490	0,72	95,12
~25% load	122,9	400	D	50	59,4	20,64	19,24	1495	0,50	93,23

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		75,2	1
Frame :		30,2	2
Bearing D-end :		47,5	2
Ambient Temperature :	23		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GV1110837519003, on date 2012-02-09 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.