Type Test Report

Date of issue: 1.9.2015

Serial No.:

Customer:

Customer ref.:

Type: M3AA 225SMB 8

Product Code: 3GAA224220-ADG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	22,0	738	27,3	0,74	S1
Insul.cl.F	400	D	50	22,0	738	46,8	0,74	S1
IP55	415	D	50	22,0	739	46,3	0,72	S1
	440	D	60	22,0	889	42,3	0,74	S1
	460	D	60	22,0	890	40,8	0,73	S1

Eff class IE3

50Hz : IE3 - 91,6(100%) - 92,3(75%) - 92,0(50%)

60Hz : IE3 - 92,2(100%)

Resistance

Line — Ambient: 22,2 °C

U_1 - V_1	0,24020 Ω
U_1 - W_1	0,24010 Ω
V_1 - W_1	0,24010 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		400,2	D	50	23,4	0,7		750	0,04	
Locked rotor test		107	D	50	46,6	2,78		0	0,32	
Thermal test (100% load)	284,6	400	D	50	48,3	24,06	22,00	738	0,72	91,42
Partial load points:										
~75% load	216,7	400	D	50	39,8	18,30	16,83	742	0,66	91,93
~50% load	146,4	400	D	50	32,4	12,48	11,42	745	0,56	91,53
~25% load	75,5	400	D	50	26,5	6,71	5,91	748	0,37	88,08

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		56,9	1
Frame :		30,7	2
Bearing D-end :		34,6	2
Ambient Temperature :	23		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GV1110788457001, on date 2011-10-14 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

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