Type Test Report

Date of issue: 1.9.2015

Serial No.:

Customer:

Customer ref.:

Type: M3AA 200MLA 8

Product Code: 3GAA204410-ADG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	15,0	737	19,2	0,74	S1
Insul.cl.F	400	D	50	15,0	737	32,4	0,74	S1
IP55	415	D	50	15,0	738	32,0	0,71	S1
	440	D	60	15,0	888	29,1	0,74	S1
	460	D	60	15,0	890	28,5	0,71	S1

Eff class IE3

50Hz : IE3 - 90,1(100%) - 91,3(75%) - 90,8(50%)

60Hz : IE3 - 91,2(100%)

Resistance

Line — Ambient: 20,9 °C

U_1 - V_1	0,45040 Ω
U_1 - W_1	0,44870 Ω
V_1 - W_1	0,44990 Ω

Insulation resistance at 21,7 °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		400,9	D	50	16,0	0,55		750	0,05	
Locked rotor test		107,5	D	50	33,5	2,08		0	0,33	
Thermal test (100% load)	194,0	400	D	50	33,0	16,70	15,00	738	0,73	89,82
Partial load points:										
~75% load	148,3	400	D	50	27,0	12,73	11,52	742	0,68	90,48
~50% load	100,6	400	D	50	21,9	8,71	7,85	745	0,57	90,12
~25% load	53,4	400	D	50	18,1	4,83	4,18	748	0,39	86,50

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		60,3	1
Frame :		35,5	2
Bearing D-end :		35,9	2
Ambient Temperature :	22		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no.3GV1110722782002, on date 2012-01-23 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.