Type Test Report

Date of issue: 1.9.2015

Serial No.:

Customer:

Customer ref.:

Type: M3AA 160MLB 8

Product Code: 3GAA164420-ADG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	5,5	726	8,4	0,67	S1
Insul.cl.F	400	D	50	5,5	726	13,9	0,67	S1
IP55	415	D	50	5,5	728	14,1	0,64	S1
	440	D	60	5,5	879	12,9	0,67	S1
	460	D	60	5,5	881	12,2	0,65	S1

Eff class IE2

50Hz : IE2 - 84,6(100%) - 85,9(75%) - 84,8(50%)

60Hz : IE2 - 86,3(100%)

Resistance

Line Ambient: 21,6 °C

U_1 - V_1	1,2799	Ω
U_1 - W_1	1,2799	Ω
V_1 - W_1	1,2797	Ω

Insulation resistance at 22 °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	D	50	8,8	0,36		750	0,06	
Locked rotor test		115	D	50	14,3	0,92		0	0,32	
Thermal test (100% load)	72,6	400	D	50	14,2	6,48	5,50	724	0,66	84,90
Partial load points:										
~75% load	56,6	400	D	50	12,3	5,06	4,33	730	0,59	85,56
~50% load	37,8	400	D	50	10,5	3,44	2,92	737	0,47	84,69
~25% load	20,3	400	D	50	9,3	2,00	1,58	743	0,31	79,22

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		62,0	1
Frame :		35,2	2
Bearing D-end :		32,4	2
Ambient Temperature :	22		2

Measurement method

1 Resistance

2 Thermometer

3 Thermocouples

These tests have been carried out on motor no. 3GV0910384080006, on date 2010-03-11 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

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