Type Test Report

Date of issue: 1.9.2015

Serial No.:

Customer:

Customer ref.:

Type: M3AA 160MLA 8

Product Code: 3GAA164410-ADG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	4,0	728	6,2	0,67	S1
Insul.cl.F	400	D	50	4,0	728	10,2	0,67	S1
IP55	415	D	50	4,0	730	10,3	0,64	S1
	440	D	60	4,0	880	9,1	0,67	S1
	460	D	60	4,0	882	9,1	0,64	S1

Eff class IE2

50Hz : IE2 - 84,0(100%) - 85,1(75%) - 83,6(50%)

60Hz : IE2 - 85,6(100%)

Resistance

Line — Ambient: 23,4 °C

U_1 - V_1 2,098 Ω

U_1 - W_1 2,089 Ω

V_1 - W_1 2,099 Ω

Insulation resistance at 23 °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	D	50	6,5	0,32		750	0,07	
Locked rotor test		113	D	50	10,0	0,65		0	0,33	
Thermal test (100% load)	52,4	400	D	50	10,4	4,77	4,00	730	0,66	83,95
Partial load points:										
~75% load	41,4	400	D	50	9,1	3,78	3,18	735	0,60	84,27
~50% load	27,9	400	D	50	7,8	2,61	2,17	740	0,48	82,91
~25% load	14,8	400	D	50	6,9	1,51	1,15	745	0,31	76,22

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		53,4	1
Frame :		24,2	2
Bearing D-end :		22	2
Ambient Temperature :	23		2

Measurement method

1 Resistance

2 Thermometer

3 Thermocouples

These tests have been carried out on motor no. 3GV1110779142015, on date 2011-08-08 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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