Type Test Report

Date of issue: 1.9.2015

Serial No.:

Customer:

Customer ref.:

Type: M3AA 160MLC 8

Product Code: 3GAA164430-ADG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	7,5	727	11,5	0,65	S1
Insul.cl.F	400	D	50	7,5	727	19,3	0,65	S1
IP55	415	D	50	7,5	730	19,1	0,63	S1
	440	D	60	7,5	879	17,5	0,64	S1
	460	D	60	7,5	882	17,0	0,63	S1

Eff class IE2

50Hz : IE2 - 86,0(100%) - 87,3(75%) - 86,5(50%)

60Hz : IE1 - 87,4(100%)

Resistance

Line Ambient: 19,5 °C

U_1 - V_1	0,8015	Ω
U_1 - W_1	0,8001	Ω
V_1 - W_1	0,8018	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	10,8	0,41		750	0,05	
Locked rotor test		119	D	50	18,8	1,07		0	0,28	
Thermal test (100% load)	98,5	400	D	50	18,7	8,63	7,50	727	0,67	86,86
Partial load points:										
~75% load	77,4	400	D	50	16,2	6,79	5,94	733	0,61	87,38
~50% load	51,6	400	D	50	13,6	4,61	3,99	739	0,49	86,65
~25% load	27,0	400	D	50	11,7	2,58	2,10	744	0,32	81,62

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		51,8	1
Frame :		36,0	2
Bearing D-end :		33,0	2
Ambient Temperature :	22		2

Measurement method

1 Resistance

2 Thermometer

3 Thermocouples

These tests have been carried out on motor no. 3GV0910444937008, on date 2010-03-15 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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