Type Test Report

Date of issue: 1.9.2015

Serial No.:

Customer:

Customer ref.:

Type: M3AA 250SMC 6

Product Code: 3GAA253230-ADG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	45,0	988	58,6	0,84	S1
Insul.cl.F	400	D	50	45,0	988	101,0	0,84	S1
IP55	415	D	50	45,0	989	98,7	0,83	S1
	440	D	60	45,0	1189	90,5	0,85	S1
	460	D	60	45,0	1189	88,4	0,83	S1

Eff class IE2

50Hz : IE2 - 93,2(100%) - 94,1(75%) - 94,0(50%)

60Hz : IE2 - 93,8(100%)

Resistance

Line Ambient: 19,5 °C

U_1 - V_1	0,07892	Ω
U_1 - W_1	0,07884	Ω
V_1 - W_1	0,07887	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		400,2	D	50	36,9	1,18		1000	0,05	
Locked rotor test		88,5	D	50	112,7	6,09		0	0,35	
Thermal test (100% load)	531,6	400	D	50	103,0	59,14	55,00	988	0,83	93,00
Partial load points:										
~75% load	368,8	400	D	50	75,4	40,90	38,33	992	0,78	93,74
~50% load	250,3	400	D	50	57,9	27,91	26,09	995	0,70	93,50
~25% load	132,6	400	D	50	44,0	15,22	13,86	998	0,50	91,04

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		87,6	1
Frame :		48,6	2
Bearing D-end :		63,9	2
Ambient Temperature :	22		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 08 730034 10001, on date 2008-11-19
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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