Type Test Report

Date of issue: 2015-06-10

Serial No.: 3G1S15041523797001

Customer:

Customer ref.:

Type: M3AA 250SMA 4

Product Code: 3GAA252051-ADL

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	400	D	50	55,0	1478	99,9	0,84	S1
Insul.cl.F	690	Y	50	55,0	1478	57,9	0,84	S1
IP55	415	D	50	55,0	1480	98,6	0,82	S1

Eff class IE3

50Hz : IE3 - 94,6(100%) - 95,1(75%) - 94,8(50%)

Resistance

Line — Ambient: 23,6 ºC

U_1 - V_1 0,06156 Ω

U_1 - W_1 0,06153 Ω

V_1 - W_1 0,06147 Ω

Insulation resistance at 23,6 ºC

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		401,8	D	50	33,7	0,97		1500	0,04	
Locked rotor test		72,7	D	50	104,7	4,29			0,33	
Thermal test (100% load)	355,4	400	D	50	98,4	58,21	55,00	1478	0,85	94,5
Partial load points:										
~75% load	265,5	400	D	50	76,4	43,45	41,25	1484	0,82	94,9
~50% load	176,3	400	D	50	56,7	28,99	27,50	1490	0,74	94,8
~25% load	87,8	400	D	50	40,5	14,83	13,75	1495	0,53	92,7

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		68,5	1
Frame :		41,9	2
Bearing D-end :		44,1	2
Ambient Temperature :	24		2

Measurement method

1 Resistance

2 Thermometer

3 Thermocouples

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 2015-01-12

Tested by ABB AB, LV Motors, 721 70 Västerås, Sweder

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