Type Test Report

Date of issue: 2015-06-10

Serial No.: 3G1S14461451892001

Customer:

Customer ref.:

Type: M3AA 225SMA 2

Product Code: 3GAA221051-ADL

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	400	D	50	45,0	2955	77,6	0,89	S1
Insul.cl.F	690	Y	50	45,0	2955	45,0	0,89	S1
IP55	415	D	50	45,0	2959	75,6	0,88	S1

Eff class IE3

50Hz : IE3 - 94,0(100%) - 94,7(75%) - 94,7(50%)

Resistance

Line — Ambient: 22,5 ºC

U_1 - V_1 0,07670 Ω

U_1 - W_1 0,07680 Ω

V_1 - W_1 0,07670 Ω

Insulation resistance at 23,3 ºC

R > 2000 Mohm 1000 V

High-voltage test winding 2400 V 60 s

Overload

Current	150%	120s
Torque	160%	15s
Speed	120%	120s

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		400,8	D	50	17,8	0,8678		3000	0,0704	
Locked rotor test		72,3	D	50	77,1	3,39			0,3511	
Thermal test (100% load)	145,4	400,3	D	50	77,8	48,08	45,00	2955	0,89	93,6
Partial load points:										
~75% load	108,6	400,2	D	50	59,1	35,83	33,75	2969	0,88	94,2
~50% load	72,1	400,4	D	50	41,7	23,91	22,50	2980	0,83	94,1
~25% load	35,9	400,4	D	50	26,6	12,26	11,25	2991	0,67	91,8

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		74,3	1
Frame :		22,2	2
Bearing D-end :		51,8	2
Ambient Temperature :	23		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 2014-10-10

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

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