Type Test Report

Date of issue: 2015-03-16

Serial No.: 3G1T12010000011684

Customer:

Customer ref.:

Type: M1AA 250 SMA 2

Product Code: 3GAA251061-_SA

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	230	D	50	55.0	2955	166.0	0,90	S1
Insul.cl.F	400	Y	50	55.0	2955	96.2	0,90	S1
IP55	460	Y	60	55.0	3545	83.2	0,90	S1

Eff class IE1

50Hz : IE1-92.1(100%)-91.8(75%)-90.3(50%)

60Hz :

Resistance

Line — Ambient: 25 °C

U_1 - V_1	0,12400 Ω
U_1 - W_1	0,12400 Ω
V_1 - W_1	0,12300 Ω

Insulation resistance at 25 °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	Y	50	26,57	2,15		3000	0,12	
Locked rotor test		95	Y	50	56,0	3,04		0	0,33	
Thermal test (100% load)	177,7	400	Y	50	96,17	59,70	54,87	2952	0,90	92,01
Partial load points:										
~75% load	133,3	400	Y	50	74,10	45,37	41,33	2965	0,88	91,80
~50% load	88,9	400	Y	50	54,53	30,56	27,67	2977	0,81	90,29
~25% load	44,4	400	Y	50	36,47	16,08	13,88	2988	0,64	85,86

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		99,0	3
Frame :			
Bearing D-end :			
Ambient Temperature :	25		3

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 2012-01-03

Computer print-out valid without signature.