Type Test Report

Date of issue: 2015-03-16

Serial No.: 3G1T05230000009190

Customer:

Customer ref.:

Type: M1AA 225 SMA 2

Product Code: 3GAA221061-_SA

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	230	D	50	45.0	2950	142.0	0,86	S1
Insul.cl.F	400	Y	50	45.0	2950	82.2	0,86	S1
IP55	460	Y	60	45.0	3540	71.1	0,86	S1

Eff class IE1

50Hz : IE1-91.7(100%)-91.4(75%)-89.9(50%)

60Hz : IE1-92.4(100%)-92.1(75%)-90.6(50%)

Resistance

Line — Ambient: 25 °C

U_1 - V_1	0,13100 Ω
U_1 - W_1	0,13000 Ω
V_1 - W_1	0,13100 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	26,54	2,37		3000	0,13	
Locked rotor test		75	Y	50	47,9	2,05		0	0,33	
Thermal test (100% load)	145,7	400	Y	50	81,83	49,52	45,01	2976	0,87	91,25
Partial load points:										
~75% load	109,3	400	Y	50	64,20	37,42	34,10	2980	0,85	90,73
~50% load	72,8	400	Y	50	46,25	25,03	22,50	2985	0,78	89,90
~25% load	36,4	400	Y	50	33,41	14,17	11,25	2994	0,61	79,40

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		81,2	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 2005-06-08

Computer print-out valid without signature.