Type Test Report

Date of issue: 2015-03-16

Serial No.: 3G1T09270000010738

Customer:

Customer ref.:

Type: M1AA 225 SMB 4

Product Code: 3GAA222062-_SA

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	230	D	50	45.0	1470	144.0	0,85	S1
Insul.cl.F	400	Y	50	45.0	1470	83.4	0,85	S1
IP55	460	Y	60	45.0	1770	72.6	0,84	S1

Eff class IE1

50Hz : IE1-91.7(100%)-91.6(75%)-90.5(50%)

60Hz :

Resistance

Line — Ambient: 25 °C

U_1 - V_1	0,14400 Ω
U_1 - W_1	0,14300 Ω
V_1 - W_1	0,14300 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	31,38	1,64		1500	0,08	
Locked rotor test		93,5	Y	50	47,5	2,77		0	0,36	
Thermal test (100% load)	292,3	400	Y	50	82,50	49,16	45,42	1484	0,86	92,40
Partial load points:										
~75% load	219,2	400	Y	50	64,1	36,86	34,13	1487	0,83	92,60
~50% load	146,2	400	Y	50	49,30	24,45	22,80	1490	0,73	91,45
~25% load	73,1	400	Y	50	37,27	13,05	11,44	1495	0,51	86,86

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		75,0	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 2009-07-01

Computer print-out valid without signature.