Type Test Report

Date of issue: 2015-03-16

Serial No.: 3G1T12110000011996

Customer:

Customer ref.:

Type: M1AA 160 MLB 4

Product Code: 3GAA162062-_DA

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	15	1455	16.7	0,84	S1
Insul.cl.F	400	D	50	15	1455	29.0	0,84	S1
IP55	460	D	60	15	1755	25.2	0,83	S1

Eff class IE1

50Hz : IE1-88.7(100%)-88.9(75%)-88.5(50%)

60Hz : IE1-90.1(100%)-90.4(75%)-89.9(50%)

Resistance

Line — Ambient: 25 °C

U_1 - V_1	0,77000 Ω
U_1 - W_1	0,77200 Ω
V_1 - W_1	0,77000 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	D	50	12,24	0,60		1500	0,07	
Locked rotor test		65	D	50	29,1	1,57		0	0,48	
Thermal test (100% load)	98,5	400	D	50	29,30	16,91	15,01	1455	0,84	88,55
Partial load points:										
~75% load	73,9	400	D	50	23,4	12,69	11,30	1467	0,79	88,79
~50% load	49,3	400	D	50	17,87	8,44	7,56	1477	0,69	88,50
~25% load	24,6	400	D	50	13,86	4,45	3,83	1487	0,46	86,03

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		84,7	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 2012-03-15

Computer print-out valid without signature.