Type Test Report

Date of issue: 2015-03-16

Serial No.: 3G1T11300000011452

Customer:

Customer ref.:

Type: M1AA 160 MLC 2

Product Code: 3GAA161063-_DA

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	18,50	2920	18.9	0,91	S1
Insul.cl.F	400	D	50	18,50	2920	32,80	0,91	S1
IP55	460	D	60	18,50	3510	28,40	0,91	S1

Eff class IE1

50Hz : IE1-89.3(100%)-89.7(75%)-89.1(50%)

60Hz : IE1-89.9(100%)-90.3(75%)-89.8(50%)

Resistance

Line — Ambient: 25 °C

U_1 - V_1	0,46100 Ω
U_1 - W_1	0,46200 Ω
V_1 - W_1	0,46200 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	7,40	0,96		3000	0,19	
Locked rotor test		49	D	50	32,2	1,23		0	0,45	
Thermal test (100% load)	60,5	400	D	50	32,92	21,37	18,56	2928	0,92	88,45
Partial load points:										
~75% load	45,4	400	D	50	24,7	15,42	13,90	2960	0,91	89,26
~50% load	30,3	400	D	50	17,30	10,55	9,28	2971	0,88	87,98
~25% load	15,1	400	D	50	12,75	6,01	4,64	2983	0,68	77,25

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		86,2	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 2011-07-25

Computer print-out valid without signature.