Type Test Report

Date of issue: 2015-03-16

Serial No.: 3G1T10050000010930

Customer:

Customer ref.:

Type: M1AA 160 MLC 4

Product Code: 3GAA162063-_SA

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	230	D	50	18.5	1445	64.7	0.81	S1
Insul.cl.F	400	Y	50	18.5	1445	37.4	0.81	S1
IP55	460	Y	60	18.5	1750	32.5	0.80	S1

Eff class IE1

50Hz : IE1-89.3(100%)-89.9(75%)-89.5(50%)

60Hz :

Resistance

Line — Ambient: 25 °C

U_1 - V_1	0,61200 Ω
U_1 - W_1	0,61200 Ω
V_1 - W_1	0,61000 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	15,85	0,70		1500	0,06	
Locked rotor test		68	Y	50	36,6	1,98		0	0,46	
Thermal test (100% load)	121,4	400	Y	50	36,50	20,77	18,42	1449	0,81	89,48
Partial load points:										
~75% load	91,0	400	Y	50	28,7	15,55	13,96	1464	0,78	90,08
~50% load	60,7	400	Y	50	22,03	10,36	9,38	1476	0,68	90,39
~25% load	30,3	400	Y	50	17,34	5,42	4,69	1487	0,45	86,54

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		93,0	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 2010-01-29

Computer print-out valid without signature.