Type Test Report

Date of issue: 2015-04-13

Serial No.: 3G1T10510000010912

Customer:

Customer ref.:

Type: M1AA 160 MLA 2

Product Code: 3GAA161061-_SA

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	230	D	50	11,00	2900	34,60	0,91	S1
Insul.cl.F	400	Y	50	11,00	2900	20,00	0,91	S1
IP55	460	Y	60	11,00	3500	17,30	0,91	S1

Eff class IE1

50Hz : IE1-87.6(100%)-87.3(75%)-86(50%)

60Hz : IE1-87.7(100%)-87.5(75%)-86.1(50%)

Resistance

Line — Ambient: 25 °C

U_1 - V_1	0,98200 Ω
U_1 - W_1	0,98500 Ω
V_1 - W_1	0,98600 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	5,00	0,58		3000	0,17	
Locked rotor test		55	Y	50	20,04	1,01		0	0,52	
Thermal test (100% load)	36,2	400	Y	50	19,63	12,48	11,01	2904	0,91	88,98
Partial load points:										
~75% load	27,2	400	Y	50	15,1	9,31	8,26	2930	0,89	88,82
~50% load	18,1	400	Y	50	10,76	6,33	5,51	2957	0,85	87,10
~25% load	9,1	400	Y	50	7,00	3,36	2,75	2977	0,68	82,99

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		74,5	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 2010-12-08

Computer print-out valid without signature.