Type Test Report

Date of issue: 2015-03-16

Serial No.: 3G1T10080000010958

Customer:

Customer ref.:

Type: M1AA 160 MLB 6

Product Code: 3GAA163062-_DA

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	11.0	960	14.4	0,75	S1
Insul.cl.F	400	D	50	11.0	960	25.0	0,75	S1
IP55	460	D	60	11.0	1165	21.8	0,73	S1

Eff class IE1

50Hz : IE1-86.4(100%)-86.2(75%)-84.1(50%)

60Hz :

Resistance

Line — Ambient: 25 °C

U_1 - V_1	1,12100 Ω
U_1 - W_1	1,12300 Ω
V_1 - W_1	1,12000 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	12,72	0,53		1000	0,06	
Locked rotor test		88	D	50	24,2	1,70		0	0,46	
Thermal test (100% load)	110,0	400	D	50	24,60	12,74	10,98	953	0,75	86,26
Partial load points:										
~75% load	82,5	400	D	50	19,76	9,47	8,27	962	0,70	86,32
~50% load	55,0	400	D	50	16,20	6,36	5,59	975	0,58	85,86
~25% load	27,5	400	D	50	13,45	3,36	2,83	988	0,36	84,23

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		81,5	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 2010-02-24

Computer print-out valid without signature.