Type Test Report

Date of issue: 2015-03-16

Serial No.: 3G1T12310000012824

Customer:

Customer ref.:

Type: M1AA 180 MLB 4

Product Code: 3GAA182062-_SA

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	230	D	50	22.0	1455	70.8	0,86	S1
Insul.cl.F	400	Y	50	22.0	1455	40.9	0,86	S1
IP55	460	Y	60	22.0	1760	36.4	0,84	S1

Eff class IE1

50Hz : IE1-89.9(100%)-90.1(75%)-89.6(50%)

60Hz :

Resistance

Line — Ambient: 25 °C

U_1 - V_1	0,36100 Ω
U_1 - W_1	0,36200 Ω
V_1 - W_1	0,36200 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	19,12	0,96		1500	0,07	
Locked rotor test		77,9	Y	50	22,9	1,48		0	0,48	
Thermal test (100% load)	143,2	400	Y	50	41,30	24,44	21,97	1465	0,85	89,91
Partial load points:										
~75% load	107,4	400	Y	50	33,82	18,44	16,48	1473	0,78	90,16
~50% load	71,6	400	Y	50	26,40	12,53	10,99	1483	0,67	89,64
~25% load	35,8	400	Y	50	21,28	6,78	5,49	1490	0,46	80,99

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		58,3	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 2012-08-03

Computer print-out valid without signature.