Type Test Report

Date of issue: 2015-06-10

Serial No.: 3G1S14461451936001

Customer:

Customer ref.:

Type: M3AA 180MLA 4

Product Code: 3GAA182051-ADL

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	400	D	50	18,5	1473	35,1	0,82	S1
Insul.cl.F	690	Y	50	18,5	1473	20,3	0,82	S1
IP55	415	D	50	18,5	1475	35,1	0,79	S1

Eff class IE3

50Hz : IE3 - 92,6(100%) - 93,2(75%) - 92,7(50%)

Resistance

Line — Ambient: 22,4 ºC

U_1 - V_1	0,23700 Ω
U_1 - W_1	0,23660 Ω
V_1 - W_1	0,23760 Ω

Insulation resistance at 22,4 ºC

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		401,4	D	50	14,8	0,53		1500	0,05	
Locked rotor test		80,2	D	50	35,8	1,63			0,33	
Thermal test (100% load)	120,0	400	D	50	35,5	20,07	18,50	1472	0,82	92,2
Partial load points:										
~75% load	89,6	400	D	50	28,2	14,97	13,88	1480	0,77	92,7
~50% load	59,4	400	D	50	21,7	10,02	9,25	1487	0,67	92,3
~25% load	29,6	400	D	50	16,8	5,21	4,63	1494	0,45	88,8

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		55,9	1
Frame :		34,5	2
Bearing D-end :		33	2
Ambient Temperature :	22		2

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 2014-09-08

Tested by ABB AB, LV Motors, 721 70 Västerås, Sweder

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