Type Test Report

Date of issue: 1.9.2015

Serial No.:

Customer:

Customer ref.:

Type: M3AA 160MLB 6

Product Code: 3GAA163420-ADG

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	11,0	972	13,0	0,79	S1
Insul.cl.F	400	D	50	11,0	972	22,5	0,79	S1
IP55	415	D	50	11,0	975	22,1	0,77	S1
	440	D	60	11,0	1174	20,2	0,79	S1
	460	D	60	11,0	1177	19,8	0,77	S1

Eff class IE2

50Hz : IE2 - 89,3(100%) - 90,6(75%) - 90,5(50%)

60Hz : IE1 - 90,1(100%)

Resistance

Line Ambient: 20,9 °C

U_1 - V_1	0,5426	Ω
U_1 - W_1	0,5417	Ω
V_1 - W_1	0,5428	Ω

Insulation resistance at 22,1 °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	11,7	0,43		1000	0,05	
Locked rotor test		83	D	50	22,1	0,95			0,3	
Thermal test (100% load)	107,5	400	D	50	23,2	12,25	11,00	977	0,76	89,77
Partial load points:										
~75% load	81,9	400	D	50	19,2	9,33	8,43	983	0,70	90,33
~50% load	55,2	400	D	50	15,7	6,36	5,71	989	0,58	89,83
~25% load	27,6	400	D	50	13,0	3,36	2,88	995	0,37	85,47

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		52,4	1
Frame :		28,2	2
Bearing D-end :		27,6	2
Ambient Temperature :	22		2

Measurement method

1 Resistance

2 Thermometer

3 Thermocouples

These tests have been carried out on motor no. 3GV1110803663010, on date 2011-12-14 which is identical in electrical design with the above.

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

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

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