Type Test Report

Date of issue: 2015-11-04

Serial No.:

Motor Type: M3AA 132 MA 4

Product Code: 3GAA132310-ADE

Customer ref.:

Rating:

	V		Hz	kW	r/min	A	η [%]	Duty
3~Motor	690	Y	50	7,50	1460	8,57	0,79	S1
Insul.cl.F	400	D	50	7,50	1460	14,70	0,79	S1
IP55	460	D	60	7,50	1764	12,80	0,81	S1

Eff class IE2

50Hz : IE2 - 88,7%(100%) - 89,4%(75%) - 88,9%(50%)

60Hz : IE2 - 89,5%(100%)

Resistance

Line Ambient: 25,5 °C

U_1 - V_1	1,1160	Ω
U_1 - W_1	1,1140	Ω
V_1 - W_1	1,1170	Ω

Insulation resistance at

R > 2000Mohm 1,0kV

Overload

Volts	130%	60s
Amp	160%	120s
rpm	120%	120s

High-voltage test winding 2400V 60s

Test	Torque [Nm]	Line U[V]		f[Hz]	Input I[A]	P1[kW]	Output P2[kW]	n[r/min]	cos ρ	η[%]
No load test		401	D	50	6,7	0,29		1500	0,06	
Locked rotor test		93	D	50	16,0	1,04			0,41	
Thermal test (100% load)	49,1	400	D	50	15,2	8,48	7,50	1459	0,80	88,47
Partial load points:										
~75% load	36,5	400	D	50	12,1	6,29	5,63	1472	0,75	89,48
~50% load	24,1	400	D	50	9,4	4,20	3,75	1483	0,64	89,37
~25% load	12,0	400	D	50	7,5	2,21	1,88	1492	0,43	85,02

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding+ :		66,8	1
Frame :	48,9		2
Bearing D-end :	56,2		2
Ambient Temperature :	23,1		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GE1370213472, on date 2013-07-29
which is identical in electrical design with the above.

Manufactured 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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