Type Test Report

Date of issue: 2017.01.05

Serial No.: 3G1C16320562608001

Customer:

Customer ref.:

Type: M3AA 132MC 4

Product Code: 3GAA132330-ADK

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	7,5	1464	8,5	0,81	S1
Insul.cl.F	400	D	50	7,5	1464	14,7	0,81	S1
IP55	660	Y	50	7,5	1456	8,8	0,83	S1
	380	D	50	7,5	1456	15,3	0,83	S1
	415	D	50	7,5	1465	14,4	0,79	S1
	460	D	60	7,5	1766	13,0	0,79	S1

Eff class IE3

50Hz : IE3 - 90,4(100%) - 91,0(75%) - 90,9(50%)

60Hz : IE3 - 91,7(100%)

Resistance

Line — Ambient: 24,5 °C

U_1 - V_1	0,860 Ω
U_1 - W_1	0,859 Ω
V_1 - W_1	0,860 Ω

Insulation resistance at 26 °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		400,1	D	50	6,8	0,23		1498	0,05	
Locked rotor test		82,5	D	50	14,8	0,79		0	0,3741	
Thermal test (100% load)	49,0	400,7	D	50	14,7	8,27	7,50	1461	0,81	90,6
Partial load points:										
~75% load	36,5	399,6	D	50	11,9	6,18	5,62	1470	0,75	91,0
~50% load	24,2	400,4	D	50	9,4	4,12	3,75	1481	0,64	90,9
~25% load	12,0	400,5	D	50	7,5	2,15	1,87	1491	0,41	87,4

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		41,4	1
Frame :	48		2
Bearing D-end :	49		2
Ambient Temperature :	26		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 27.8.2016

Tested by ABB Shanghai Motors, LV Motors, Shanghai, P.R. China

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