Test Report

Date of issue: 9.6.2014

Serial No.:

Type:	M3KP 400LC 8
Product Code:	3GKP404530-_DG
Protection type:	Ex de IIB T4 Gb
Cert. No.:	LCIE 10 ATEX 3004X / IECEx LCI 04.0032X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	400	744	424	0,82	S1
Insul.cl.F	400	D	50	400	744	731	0,82	S1
S1 AMB -20…+40ºC	660	Y	50	400	743	438	0,83	S1
IP55	380	D	50	400	743	761	0,83	S1
3520 kg	415	D	50	400	744	722	0,80	S1
	440	D	60	450	893	740	0,83	S1

Resistance

Line — Ambient: 27,5 ºC

U_1 - V_1	0,004300	Ω
U_1 - W_1	0,004298	Ω
V_1 - W_1	0,004302	Ω

Insulation resistance at 83,0 ºC
7000 MΩ 1000 V

Overload
Torque 160 % 15s

High-voltage test winding 1900 V 60 s

Test		Line U[V]		f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos φ	η [%]
No-load test		400,0	D	50	259,0	5,070			0,0283	
Locked rotor test		87,2	D	50	731,2	21,532			0,1949	
Temperature-rise test		400,8	D	50	735,26	416,40	400,0	744	0,817	96,1

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		68,9	1
Frame :		44,5	3
Bearing D-end :		49,0	3
Rotor :		120,9	2
Ambient Temperature :	25,0		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GF11069476C, on date 2011-06-10, which is identical in design with the above.

Starting current (I_S / I_N) : 6,02

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 Oy, Motors and Generators, Vaasa, Finland

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Computer print-out valid without signature.