Test Report

Date of issue: 16.3.2015

Serial No.:

Customer:

Customer ref.:

Order No.:
Type: M3KP 200MLA 6
Product Code: 3GKP203410-ADL
Protection type: Ex de IIB T4 Gb
Cert. No.: LCIE 10 ATEX 3061X/
IECEx LCI 04.0011X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	18,5	989	21,6	0,82	S1
Insul.cl.F	400	D	50	18,5	989	35,2	0,82	S1
IP55	415	D	50	18,5	990	34,5	0,81	S1
	440	D	60	18,5	1189	31,7	0,83	S1
Eff class IE3	460	D	60	18,5	1190	30,6	0,82	S1

50Hz: IE3-91,7%(100%)-91,9%(75%)-91,2%(50%)
60Hz: IE3-93,0%(100%)

Resistance
Line — Ambient: 26 °C
U_1 - V_1 0,28990 Ω
U_1 - W_1 0,28910 Ω
V_1 - W_1 0,28910 Ω

Insulation resistance at 80 °C
2000 MΩ 1000 V

Overload
Torque 160% 15s
Speed 120% 120s
Current 150% 15s

High-voltage test winding 1900 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		400,7	D	50	13,6	0,60		998	0,06	
Locked rotor test		85,3	D	50	35,1	1,73		0	0,33	
Thermal test (100% load)	178,7	400,4	D	50	35,2	20,1	18,5	989	0,82	92,0
Partial load points:										
~75% load	134,3	400,1	D	50	27,9	15,1	13,9	991	0,78	92,2
~50% load	89,6	400,9	D	50	21,3	10,1	9,3	995	0,68	91,6
~25% load	44,8	400,9	D	50	16,3	5,3	4,6	997	0,47	87,4

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		48	1
Frame :		28	2
Bearing D-end :		31	2
Rotor:		60	3
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3G1P141700184, on date 2014-07-07
which is identical in 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 Oy, Motors and Generators, Vaasa, Finland

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