Test Report

Date of issue: 25.5.2015

Serial No.:

Customer:

Customer ref.:

Order No.:
Type: M3KP 160MLC 2
Product Code: 3GKP161430-ADK
Protection type: Ex de IIB T4 Gb
Cert. No.: LCIE 11 ATEX 3087 X / IECEx LCIE 09.0008X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	18,5	2942	17,9	0,93	S1
Insul.cl.F	400	D	50	18,5	2942	30,8	0,93	S1
IP55	660	Y	50	18,5	2935	18,9	0,93	S1
	380	D	50	18,5	2935	32,6	0,93	S1
	415	D	50	18,5	2948	30,0	0,92	S1
	460	D	60	18,5	3551	26,8	0,93	S1

Eff class IE3

50Hz : IE3-93,1(100%)-93,9(75%)-93,9(50%)
60Hz : IE3-92,9(100%)

Resistance
Line Ambient: 20,6 ºC
U_1 - V_1 0,2242 Ω
U_1 - W_1 0,2234 Ω
V_1 - W_1 0,2238 Ω

Insulation resistance at 22,1 ºC
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		399	D	50	8,1	0,41		3000	0,07	
Locked rotor test		60	D	50	32,9	1,34		0	0,39	
Thermal test (100% load)	60,0	400	D	50	31,6	19,91	18,50	2947	0,91	92,90
Partial load points:										
~75% load	44,3	400	D	50	23,9	14,70	13,75	2962	0,89	93,50
~50% load	28,2	400	D	50	16,7	9,44	8,80	2976	0,81	93,27
~25% load	13,9	400	D	50	11,1	4,81	4,34	2989	0,62	90,22

Temperature rise at rated load.

	[ºC]	[K]	Method
Stator winding :		49,5	1
Frame :		27,8	2
Bearing D-end :		31,4	2
Ambient Temperature :	22		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GV12108464070004, on date 2012-01-18
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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Computer print-out valid without signature.