Test Report

Date of issue: 22.5.2015

Serial No.:

Customer:

Customer ref.:

Order No.:
Type: M3KP 160MLB 2K
Product Code: 3GKP161420-ADK
Protection type: Ex de IIB T4 Gb
Cert. No.: LCIE 11 ATEX 3087X / IECEx LCI 09.0008X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	15,0	2943	14,7	0,92	S1
Insul.cl.F	400	D	50	15,0	2943	25,4	0,92	S1
IP55	660	Y	50	15,0	2935	15,4	0,93	S1
	380	D	50	15,0	2935	26,5	0,93	S1
	415	D	50	15,0	2948	24,7	0,91	S1
	460	D	60	15,0	3552	22,1	0,92	S1

Eff class IE3

50Hz : IE3-92,5(100%)-93,4(75%)-93,2(50%)
60Hz : IE3-92,3(100%)

Resistance

Line — Ambient: 22,4 ºC

U_1 - V_1	0,2831	Ω
U_1 - W_1	0,2815	Ω
V_1 - W_1	0,2814	Ω

Insulation resistance at 22 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		400	D	50	7,4	0,36		3000	0,07	
Locked rotor test		56	D	50	29,2	1,09		0	0,39	
Thermal test (100% load)	48,5	400	D	50	25,7	16,11	15,00	2951	0,90	93,10
Partial load points:										
~75% load	35,9	400	D	50	19,7	11,91	11,14	2963	0,87	93,50
~50% load	22,3	400	D	50	13,7	7,49	6,96	2978	0,79	93,00
~25% load	12,0	400	D	50	9,9	4,16	3,75	2988	0,61	90,19

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		41,1	1
Frame :		22,2	2
Bearing D-end :		20,7	2
Ambient Temperature :	22		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GV1110777052001, on date 2011-10-06
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.