Test Report

Date of issue: 25.5.2015

Serial No.:

Customer:

Customer ref.:

Order No.:
Type: M3GP 160MLB 4K
Product Code: 3GGP162420-ADK
Protection type: Ex tc IIIB/C T125C Dc
Cert. No.: LCIE 13 ATEX 1034 X / IECEx LCIE 13.0047 X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	15,0	1474	16,1	0,84	S1
Insul.cl.F	400	D	50	15,0	1474	27,8	0,84	S1
	660	Y	50	15,0	1471	17,0	0,85	S1
	380	D	50	15,0	1471	29,0	0,85	S1
	415	D	50	15,0	1477	27,0	0,83	S1
	460	D	60	15,0	1778	24,3	0,83	S1

Eff class IE3

50Hz : IE3-92,6(100%)-93,4(75%)-93,2(50%)
60Hz : IE3-93,1(100%)

Resistance

Line Ambient: 21,4 ºC

U_1 - V_1	0,2964	Ω
U_1 - W_1	0,2951	Ω
V_1 - W_1	0,2952	Ω

Insulation resistance at 23 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	11,2	0,35		1500	0,05	
Locked rotor test		76	D	50	27,2	1,07		0	0,30	
Thermal test (100% load)	97,2	400	D	50	28,4	16,18	15,00	1474	0,82	92,72
Partial load points:										
~75% load	73,5	400	D	50	22,7	12,22	11,40	1481	0,78	93,25
~50% load	48,9	400	D	50	17,4	8,19	7,63	1488	0,68	93,10
~25% load	25,2	400	D	50	13,3	4,35	3,94	1494	0,47	90,48

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		50,1	1
Frame :		36,0	2
Bearing D-end :		35,6	2
Ambient Temperature :	23		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GV1110794430001, on date 2011-11-16
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.