Test Report

Date of issue: 25.5.2015

Serial No.:

Customer:

Customer ref.:

Order No.:
Type: M3GP 160MLB 6K
Product Code: 3GGP163420-ADK
Protection type: Ex tc IIIB/C T125C Dc
Cert. No.: LCIE 13 ATEX 1034 X / IECEx LCIE 13.0047 X

Rating:

3~Motor
Insul.cl.F

V		Hz	kW	r/min	A	cos φ	Duty
690	Y	50	11,0	979	13,6	0,74	S1
400	D	50	11,0	979	23,5	0,74	S1
660	Y	50	11,0	976	13,8	0,77	S1
380	D	50	11,0	976	23,8	0,77	S1
415	D	50	11,0	981	23,6	0,71	S1
460	D	60	11,0	1183	20,6	0,73	S1

Eff class IE3

50Hz : IE3-91,2(100%)-91,8(75%)-91,1(50%)
60Hz : IE3-91,7(100%)

Resistance

Line — Ambient: 21,5 ºC

U_1 - V_1	0,4271	Ω
U_1 - W_1	0,4259	Ω
V_1 - W_1	0,4259	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	12,1	0,45		1000	0,05	
Locked rotor test		85	D	50	23,3	0,91		0	0,26	
Thermal test (100% load)	107,1	400	D	50	23,3	12,13	11,00	981	0,75	90,69
Partial load points:										
~75% load	81,6	400	D	50	19,4	9,26	8,42	986	0,69	90,91
~50% load	55,1	400	D	50	16,0	6,34	5,71	991	0,57	90,03
~25% load	27,4	400	D	50	13,2	3,35	2,85	995	0,37	85,14

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		40,9	1
Frame :		30,3	2
Bearing D-end :		27,7	2
Ambient Temperature :	22		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GV1110796907001, on date 2011-10-14
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.