Test Report

Date of issue: 25.5.2015

Serial No.:

Customer:

Customer ref.:

Order No.:
Type: M3GP 180MLA 4
Product Code: 3GGP182410-ADK
Protection type: Ex nA IIC T3 Gc
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	18,5	1481	20,2	0,82	S1
Insul.cl.F	400	D	50	18,5	1481	34,9	0,82	S1
IP55	660	Y	50	18,5	1478	21,1	0,83	S1
	380	D	50	18,5	1478	36,4	0,83	S1
	415	D	50	18,5	1482	34,0	0,81	S1
	460	D	60	18,5	1482	30,6	0,81	S1

Eff class IE3

50Hz : IE3-93,3(100%)-94,0(75%)-93,8(50%)
60Hz : IE3-93,6(100%)

Resistance
Line Ambient: 22,4 ºC
U_1 - V_1 0,2211 Ω
U_1 - W_1 0,2202 Ω
V_1 - W_1 0,2202 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	14,0	0,42		1500	0,04	
Locked rotor test		76	D	50	34,0	1,30		0	0,3	
Thermal test (100% load)	119,1	400	D	50	34,9	19,76	18,50	1483	0,82	93,62
Partial load points:										
~75% load	89,9	400	D	50	27,8	14,90	14,01	1488	0,77	94,02
~50% load	59,6	400	D	50	21,4	9,95	9,31	1492	0,67	93,62
~25% load	29,2	400	D	50	16,4	5,06	4,58	1497	0,45	90,47

Temperature rise at rated load.

	[ºC]	[K]	Method
Stator winding :		46,7	1
Frame :		31,5	2
Bearing D-end :		32,2	2
Ambient Temperature :	23		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GV1110779332001, on date 2011-09-28
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.