Test Report

Date of issue: 25.5.2015

Serial No.:

Customer:

Customer ref.:

Order No.:
Type: M3GP 180MLB 4
Product Code: 3GGP182420-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	22,0	1480	24,1	0,82	S1
Insul.cl.F	400	D	50	22,0	1480	41,5	0,82	S1
	660	Y	50	22,0	1477	42,7	0,84	S1
	380	D	50	22,0	1477	42,7	0,84	S1
	415	D	50	22,0	1482	40,9	0,80	S1
	460	D	60	22,0	1783	35,8	0,82	S1

Eff class IE3

50Hz : IE3-93,3(100%)-94,1(75%)-94,1(50%)
60Hz : IE3-93,8(100%)

Resistance
Line Ambient: 24,8 ºC
U_1 - V_1 0,1925 Ω
U_1 - W_1 0,1916 Ω
V_1 - W_1 0,1922 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	16,5	0,51		1500	0,04	
Locked rotor test		76	D	50	40,6	1,64		0	0,31	
Thermal test (100% load)	141,8	400	D	50	41,7	23,60	22,00	1481	0,82	93,21
Partial load points:										
~75% load	106,7	400	D	50	33,1	17,73	16,61	1486	0,77	93,65
~50% load	71,2	400	D	50	25,5	11,90	11,11	1491	0,67	93,36
~25% load	35,9	400	D	50	19,5	6,22	5,63	1496	0,46	90,53

Temperature rise at rated load.	[ºC]	[K]	Method
Stator winding :		59,4	1
Frame :		39,7	2
Bearing D-end :		38,7	2
Ambient Temperature :	23		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no.3GV1110779333001, on date 2011-09-27
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
Telephone +46 (0)21 32 90 00
Telefax +46 (0)21 32 90 22

Computer print-out valid without signature.