Test Report

Date of issue: 17.3.2015

Serial No.:

Customer:

Customer ref.:

Type:	M3GP 225SMA 2
Product Code:	3GGP221210-ADL
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	45	2968	46	0,87	S1
Insul.cl.F	400	D	50	45	2968	79,6	0,87	S1
	415	D	50	45	2970	78,3	0,85	S1
	440	D	60	45	3568	71,8	0,88	S1
Eff class IE3	460	D	60	45	3570	67,4	0,89	S1

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

Resistance
Line — Ambient: 23 °C

U_1 - V_1	0,06568	Ω
U_1 - W_1	0,06572	Ω
V_1 - W_1	0,06567	Ω

Insulation resistance at 39 °C
2000 MΩ 1000 V

Overload
Torque 160% 15s
Speed 120% 120s
Current 150% 15s

High-voltage test winding 1900 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		400,0	D	50	21,5	1,25		2998	0,08	
Locked rotor test		71,4	D	50	78,5	3,56		0	0,37	
Thermal test (100% load)	144,8	400,2	D	50	79,6	47,9	45,0	2968	0,87	94,1
Partial load points:										
~75% load	108,6	400,0	D	50	61,1	35,9	33,8	2977	0,85	94,1
~50% load	72,2	400,0	D	50	44,1	24,1	22,5	2985	0,79	93,2
~25% load	36,3	400,0	D	50	29,6	12,6	11,3	2992	0,62	89,2

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		57	1
Frame :		35	2
Bearing D-end :		34	2
Rotor:		54	3
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3G1P141700186, on date 2014-10-03
which is identical in 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 Oy, Motors and Generators, Vaasa, Finland

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