Test Report

Date of issue: 29.5.2015

Serial No.:

Customer:

Customer ref.:

Order No.:
Type: M3GP 250SMA 2
Product Code: 3GGP251210-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	55,0	2975	54,3	0,89	S1
Insul.cl.F	400	D	50	55,0	2975	93,6	0,89	S1
IP55	660	Y	50	55,0	2973	56,4	0,90	S1
	380	D	50	55,0	2973	97,9	0,90	S1
	415	D	50	55,0	2977	91,3	0,88	S1
	460	D	60	55,0	3578	81,5	0,89	S1

Eff class IE3

50Hz : IE3-95,2(100%)-95,4(75%)-95,0(50%)
60Hz : IE3-94,4(100%)

Resistance
Line Ambient: 24,0 °C
U_1 - V_1 0,04292 Ω
U_1 - W_1 0,04191 Ω
V_1 - W_1 0,04293 Ω

Insulation resistance at 24 °C
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		400,3	D	50	24,8	0,92		3000	0,05	
Locked rotor test		70,4	D	50	106,7	4,67		0	0,36	
Thermal test (100% load)	176,5	400	D	50	92,9	57,46	55,00	2976	0,89	95,72
Partial load points:										
~75% load	134,6	400	D	50	72,8	43,83	42,02	2982	0,87	95,87
~50% load	90,8	400	D	50	53,2	29,74	28,41	2989	0,81	95,52
~25% load	46,2	400	D	50	35,4	15,55	14,51	2996	0,63	93,31

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		53,9	1
Frame :		29,1	2
Bearing D-end :		31,4	2
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GV1110782971002, on date 2011-09-08
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.