Test Report

Cert. No. ATEX Cert.No.LCIE 01 ATEX 6089
IECEx Cert. No. IECEx LCI 07.0001

Date of Issue

Customer:

Customer ref.:

Type: M3GP 280SMA 6
Protection type: Ex nA II T3

Serial no.:
Tag no.:
Order no.:

Rating: Product Code 3GGP283210-_DG
3~Motor

Insul.cl. F
S1 Amb. -20…+40 °C
IP 56
605 kg

V		Hz	kW	r/min	A	cos φ
415	D	50	45	991	81	0,82

Resistance

U_1 -V_1	0,0811 Ω	22,5 °C
U_1 -W_1	0,0811 ”	
V_1 -W_1	0,0811 ”	

Insulation resistance
1700 MΩ 1000 V
49,5 °C

High-voltage test
2400 V 60 s

Overload test
1,6 x T_N 15 s

Test		Line U[V]	f[Hz]	Input I[A]	P_1 [kW]	Output P_2 [kW]	n[r/min]	cos φ	η [%]
No-load test		400,0 D	50	26,9	1,07			0,0573	
Locked-rotor test		85,9 D	50	81,0	3,66			0,304	
Temperature-rise test		400,1 D	50	83,8	48,21	45,0	990	0,83	93,3

Temperature rise at amb.temp. 25 °C

	[K]	Method
Stator winding	53,6	1

Temperature rise at amb. temp. 25 °C

	[K]	Method
Frame	31,8	3
Bearing D-end	35,5	3

Measurement method
1 Resistance
2 Embedded temp. detector
3 Thermometer

These tests have been carried out on motor no. 3GF10023987B, 2010-06-06
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

Tested by ABB Oy
Motors/Vaasa

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Motors

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