Test Report

Cert. No. ATEX Cert. No. LCIE 09 ATEX 1010
IECEx Cert. No. IECEx LCI 09.0012

Date of Issue

Customer:

Customer ref.:

Type: M3GP 180MLA 4
Protection type: Ex nA II T3

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

Rating: Product Code 3GGP 182 410 – _DH
3~Motor
Insul.cl. F
S1
IP 55
271 kg

V		Hz	kW	r/min	A	cos φ
690	Y	50	18,5	1474	20,3	0,83
400	**D**	**50**	**18,5**	**1474**	**35,1**	**0,83**
660	Y	50	18,5	1470	21,1	0,84
380	D	50	18,5	1470	36,7	0,84
415	D	50	18,5	1476	34,6	0,81
440	D	60	21	1770	35,4	0,85

Resistance

U_1 -V_1	0,2606 Ω	21,5 °C
U_1 -W_1	0,2605 ”	
V_1 -W_1	0,2605 ”	

Insulation resistance
20000 MΩ 1000 V
21,5C

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		400,1 D	50	13,9	0,634			0,0657	
Locked-rotor test		93,1 D	50	36,0	1,99			0,342	
Temperature-rise test		400,0 D	50	35,8	20,28	18,5	1472	0,82	91,2

Temperature rise at amb.temp. 25 °C

	[K]	Method
Stator winding	56,1	1

Temperature rise at amb. temp. 25 °C

	[K]	Method
Frame	31,7	3
Bearing D-end	33,8	3
Rotor	84,0	3

Measurement method
1 Resistance
2 Embedded temp. detector
3 Thermometer

These tests have been carried out on motor no. 0801-010228066AA, 2008-07-14
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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