Test Report

Date of issue: 15.8.2013

Serial No.: 3GF11094427

Customer: ABB OY

Order No.: 599608-1
Type: M3GP 160MLA 2 IMB3/IM1001
Product Code: 3GGP161410-ADD
Protection type: Ex nA II C T3 Gc
Cert. No.: LCIE 13 ATEX 1034 X
IECEx LCIE 13.0047X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	11	2931	11,4	0,89	S1
Insul.cl.F	400	D	50	11	2931	19,7	0,89	S1
IP55	415	D	50	11	2937	19,7	0,86	S1

Eff class IE2 — 50Hz : IE2 - 90.1(100%) - 90.5(75%) - 89.6(50%)

Resistance
Line — Ambient: 20,0 °C
$U_1 - V_1$ 0,50820 Ω
$U_1 - W_1$ 0,50850 Ω
$V_1 - W_1$ 0,50880 Ω

Insulation resistance at 41,5 °C
31000 MΩ 1000 V

Overload
Torque 160 % 15s

High-voltage test winding 2900 V 1 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	6,40	0,53		2998	0,12	
Locked rotor test		78,1	D	50	19,7	1,09		0	0,41	
Thermal test (100% load)	35,8	400,0	D	50	20,3	12,3	11,0	2926	0,88	89,3
Partial load points:										
~75% load	26,8	400,1	D	50	15,7	9,21	8,25	2947	0,85	89,5
~50% load	17,8	400,0	D	50	11,6	6,23	5,50	2964	0,78	88,3
~25% load	9,1	400,1	D	50	8,18	3,34	2,75	2981	0,59	82,4

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		53,1	1
Frame :		20,2	2
Bearing D-end :		36,0	2
Rotor:			3
Ambient Temperature :	25,0		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

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 8.12.2011

Tested by ABB Oy, Motors and Generators, Vaasa, Finland

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Computer print-out valid without signature.

ABB, Motors and Generators