Test Report

Date of issue: 28.8.2013

Serial No.:

Customer: ABB OY

Customer ref.: 4207932

Tag No.: 3GF11094419
Order No.: 599608-4
Type: M3GP 180MLB 2 IMB3/IM1001
Product Code: 3GGP181420-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	30	2943	30,2	0,90	S1
Insul.cl.F	400	D	50	30	2943	52	0,90	S1
IP55	415	D	50	30	2948	50	0,90	S1

Eff class IE2 — 50Hz : IE2 - 92.5(100%) - 93.0(75%) - 92,6(50%)

Resistance

Line — Ambient: 19,5 °C

U_1 - V_1	0,14380 Ω
U_1 - W_1	0,14350 Ω
V_1 - W_1	0,14340 Ω

Insulation resistance at 28,0 °C
18000 MΩ 1000 V

High-voltage test winding 2900 V 1 s

Overload
Torque 160 % 15s

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		399,9	D	50	13,4	0,89			0,10	
Locked rotor test		67,4	D	50	52,0	2,49			0,41	
Thermal test (100% load)		400,1	D	50	52,2	32,5	30,0	2948	0,90	92,2
Partial load points:										
~75% load		399,8	D	50	39,8	24,2	22,5	2969	0,88	92,9
~50% load		400,1	D	50	28,4	16,3	15,0	2983	0,83	92,3
~25% load		400,1	D	50	18,6	8,48	7,50	2994	0,66	88,4

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		57,4	1
Frame :		20,5	2
Bearing D-end :		28,3	2
Rotor:		74,2	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 17.1.2012

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

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