Test Report

Date of issue: 28.8.2013

Serial No.: 0751-010227548

Type: M3GP 160MLB 6 B3
Product Code: 3GGP163420-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	400	D	50	11	972	21,7	0,81	S1
Insul.cl.F	415	D	50	11	975	21,4	0,79	S1
IP55	690	Y	50	11	972	12,6	0,81	S1

Eff class IE2 — 400 V 50Hz : IE2 - 90.1(100%) - 90.8(75%) - 90.4(50%)

Resistance
Line — Ambient: 22,0 °C

U_1 - V_1	0,58500	Ω
U_1 - W_1	0,58520	Ω
V_1 - W_1	0,58600	Ω

Insulation resistance at 22,0 °C
20000 MΩ 1000 V

Overload
Torque 160% 15s

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		400,1	D	50	10,3	0,39		1000	0,06	
Locked rotor test		93,6	D	50	23,1	1,31		0	0,35	
Thermal test (100% load)	138,7	400,0	D	50	22,1	12,2	11,0	973	0,80	90,1
Partial load points:										
~75% load	80,2	400,0	D	50	17,8	9,10	8,24	981	0,74	90,6
~50% load	53,9	400,0	D	50	14,2	6,20	5,58	988	0,63	90,0
~25% load	26,8	400,0	D	50	11,4	3,26	2,79	995	0,41	85,7

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		50,2	1
Frame :		30,0	2
Bearing D-end :		29,0	2
Rotor:		78,5	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 9.7.2008

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

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