Test Report

Date of issue: 28.8.2013

Serial No.: 3GF11070035

Type: M3GP 180MLB 4 IMB3/IM1001
Product Code: 3GGP182420-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	22	1476	42,1	0,82	S1
Insul.cl.F	415	D	50	22	1478	41	0,81	S1
IP55	690	Y	50	22	1476	24,4	0,82	S1

Eff class IE2 — 400 V 50Hz : IE2 - 91.6(100%) - 92.4(75%) - 92.2(50%)

Resistance
Line — Ambient: 22,0 °C

U_1 - V_1	0,19470	Ω
U_1 - W_1	0,19480	Ω
V_1 - W_1	0,19480	Ω

Insulation resistance at 50,0 °C
15000 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		400,1	D	50	17,1	0,63		1500	0,05	
Locked rotor test		86,9	D	50	42,1	2,11		0	0,33	
Thermal test (100% load)	142,3	400,0	D	50	42,1	23,9	22,0	1475	0,82	92,2
Partial load points:										
~75% load	107,4	400,1	D	50	33,5	17,8	16,5	1483	0,77	92,8
~50% load	70,8	400,1	D	50	25,7	11,9	11,00	1490	0,67	92,3
~25% load	35,6	400,2	D	50	19,8	6,20	5,50	1495	0,45	88,7

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		56,1	1
Frame :		25,8	2
Bearing D-end :		37,5	2
Rotor:		85,1	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 5.5.2011

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

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