Type Test Report

Date of issue: 28.8.2013

Serial No.: 3GF12103384

Customer: ABB OY

Order No.: 627894-1
Type: M3GP 225SMC 4 IMB3/IM1001
Product Code: 3GGP222230-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	45	1477	45,4	0,88	S1
Insul.cl.F	400	D	50	45	1477	78,4	0,88	S1
IP55	415	D	50	45	1479	77,3	0,86	S1

Eff class IE2 — 50Hz : IE2-94.1%(100%)-94.6%(75%)-94.4%(50%)

Resistance
Line — Ambient: 22,0 °C
U_1 - V_1 0,08011 Ω
U_1 - W_1 0,08011 Ω
V_1 - W_1 0,08028 Ω

Insulation resistance at 42,5 °C
4900 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	25,4	1,00		1500	0,06	
Locked rotor test		79,8	D	50	78,4	3,91		0	0,36	
Thermal test (100% load)	291,0	400,1	D	50	81,5	48,1	45,0	1480	0,85	93,5
Partial load points:										
~75% load	217,8	400,0	D	50	62,5	35,9	33,8	1486	0,83	93,9
~50% load	145,0	400,1	D	50	45,6	24,0	22,5	1491	0,76	93,7
~25% load	72,6	400,1	D	50	31,8	12,4	11,3	1495	0,56	90,8

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		62,8	1
Frame :		26,6	2
Bearing D-end :		45,4	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 18.3.2012

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

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Computer print-out valid without signature.