Test Report

Date of issue: 4.6.2014

Serial No.: 3GF11094414

Order No.: 599608-8
Type: M3JP 225SMC 2 IMB3/IM1001
Product Code: 3GJP221230-ADG
Protection type: Ex d IIB T4 Gb
Cert. No.: LCIE 10 ATEX 3057X / IECEx LCI 04.0005X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	55	2965	55,7	0,88	S1
Insul.cl.F	400	D	50	55	2965	96	0,88	S1
IP55	415	D	50	55	2968	93,5	0,87	S1

Eff class IE2 — 50Hz : IE2 - 93.9(100%) - 93,9(75%) - 92.9(50%)

Resistance
Line — Ambient: 21,0 °C
U_1 - V_1 0,05060 Ω
U_1 - W_1 0,05068 Ω
V_1 - W_1 0,05059 Ω

Insulation resistance at 45,5 °C
329 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	25,3	1,30		2998	0,07	
Locked rotor test		74,1	D	50	96,0	4,18		0	0,34	
Thermal test (100% load)	177,2	400,1	D	50	95,8	58,3	55,0	2963	0,88	94,4
Partial load points:										
~75% load	132,8	400,0	D	50	73,4	43,6	41,3	2974	0,86	94,6
~50% load	88,4	400,0	D	50	52,7	29,3	27,5	2983	0,80	94,0
~25% load	44,2	400,1	D	50	35,0	15,2	13,8	2991	0,63	90,6

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		60,9	1
Frame :		23,1	2
Bearing D-end :		43,4	2
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 17.12.2011

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

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