Test Report

Date of issue: 4.6.2014

Serial No.: 3GF10051625

Type: M3JP 315SMA 4 IMB3/IM1001
Product Code: 3GJP312210-ADG
Protection type: Ex d IIB T4 Gb
Cert. No.: LCIE 11 ATEX 3090X / IECEx LCI 04.0007X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	400	D	50	110	1487	194	0,86	S1
Insul.cl.F								
IP55								

Resistance
Line — Ambient: 20,0 °C

U_1 - V_1	0,02024	Ω
U_1 - W_1	0,02022	Ω
V_1 - W_1	0,02023	Ω

Insulation resistance at 51,0 °C
31000 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		400,0	D	50	61,7	2,09		1500	0,05	
Locked rotor test		74,6	D	50	194,1	7,13		0	0,28	
Thermal test (100% load)	706,5	400,4	D	50	195,7	115,5	110,0	1489	0,85	95,2
Partial load points:										
~75% load	531,1	400,2	D	50	152,3	86,6	82,5	1491	0,82	95,3
~50% load	352,5	400,5	D	50	112,5	58,0	55,0	1494	0,74	94,9
~25% load	174,3	400,0	D	50	79,8	29,8	27,5	1498	0,54	92,2

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		54,8	1
Frame :		24,6	2
Bearing D-end :		38,2	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 16.11.2010

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

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