Type Test Report

Date of issue: 11.6.2014

Serial No.: 3GP11021981

Order No.: 596095-20 / 30162790-1
Type: M3GP 315SMC 2 B3
Product Code: 3GGP311230-ADG
Protection type: Ex nA IIC T3 Gc
Cert. No.: LCIE 12 ATEX 1008X
IECEx LCI 07.0001X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	400	D	50	150	2983	257	0,89	S1

Insul.cl.F
IP55

Resistance
Line — Ambient: 21,5 °C

U_1 - V_1	0,01074	Ω
U_1 - W_1	0,01070	Ω
V_1 - W_1	0,01074	Ω

Insulation resistance at 41 °C
12000 MΩ 1000 V

Overload
Torque 160 % 15s

High-voltage test winding 1800 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	65,7	3,51		3000	0,08	
Locked rotor test		62,2	D	50	257,0	7,48		0	0,27	
Thermal test (100% load)	480,2	400,7	D	50	258,8	156,9	150,0	2985	0,88	95,6
Partial load points:										
~75% load	364,0	400,8	D	50	198,8	118,0	112,5	2989	0,86	95,4
~50% load	237,3	401,0	D	50	143,0	79,4	75,0	2993	0,80	94,4
~25% load	121,7	401,1	D	50	95,0	41,3	37,5	2997	0,63	90,8

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		58,5	1
Frame :		27,0	2
Bearing D-end :		38,7	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 4.11.2011

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

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Computer print-out valid without signature.