Test Report

Date of issue: 5.6.2014

Serial No.: 3GP11020934

Type: M3KP 315SMC 6 B3
Product Code: 3GKP313230-ADG
Protection type: Ex de 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	991	201	0,83	S1
Insul.cl.F	415	D	50	110	992	196	0,82	S1
IP55	690	Y	50	110	991	117	0,83	S1

Eff class IE2 — 400 V 50Hz : IE2 - 95.0(100%) - 95.0(75%) - 94,6(50%)

Resistance
Line — Ambient: 20,0 °C

U_1 - V_1	0,02490	Ω
U_1 - W_1	0,02488	Ω
V_1 - W_1	0,02491	Ω

Insulation resistance at 47,5 °C
14000 MΩ 1000 V

Overload
Torque 160 % 15s

High-voltage test winding 1900 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		399,9	D	50	74,8	2,30		1000	0,04	
Locked rotor test		76,8	D	50	202,0	8,16		0	0,30	
Thermal test (100% load)	1060,0	400,3	D	50	202,1	116,1	110,0	992	0,83	94,8
Partial load points:										
~75% load	795,7	400,1	D	50	158,6	86,9	82,5	994	0,79	95,0
~50% load	529,0	400,2	D	50	119,7	58,2	55,0	996	0,70	94,5
~25% load	264,0	400,1	D	50	88,9	30,1	27,5	998	0,49	91,5

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		57,7	1
Frame :		33,5	2
Bearing D-end :		48,3	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 26.10.2011

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

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