Test Report

Date of issue: 4.6.2014

Serial No.: 0845-010576755

Type: M3KP 315SMB 2 B3
Product Code: 3GKP311220-RDG
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	690	Y	50	132	2982	132	0,88	S1
Insul.cl.F	400	D	50	132	2982	225	0,88	S1
IP55	415	D	50	132	2983	222	0,87	S1

Resistance
Line — Ambient: 21,5 °C

U_1 - V_1	0,01364 Ω
U_1 - W_1	0,01364 Ω
V_1 - W_1	0,01372 Ω

Insulation resistance at 48,0 °C
4300 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		399,9	D	50	65,2	3,89		3000	0,09	
Locked rotor test		62,5	D	50	227,9	6,57		0	0,27	
Thermal test (100% load)	422,7	400,2	D	50	233,8	139,1	132,0	2984	0,86	94,9
Partial load points:										
~75% load	324,5	400,1	D	50	180,8	104,7	99,0	2988	0,84	94,6
~50% load	215,5	400,1	D	50	131,7	70,7	66,0	2993	0,78	93,3
~25% load	109,5	400,0	D	50	89,9	37,1	33,0	2996	0,60	88,9

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		63,0	1
Frame :		31,6	2
Bearing D-end :		40,4	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 17.12.2008

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

Telephone +358 10 2211
Telefax +358 10 22 47372

Computer print-out valid without signature.