Test Report

Date of issue: 4.6.2014

Serial No.: 0847-010378192

Type: M3KP 250SMA 4
Product Code: 3GKP252210-G
Protection type: Ex de IIB T4 Gb
Cert. No.: LCIE 10 ATEX 3063X / IECEx LCI 04.0012X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	400	D	50	55	1479	100	0,84	S1
Insul.cl.F	415	D	50	55	1480	97,6	0,83	S1
IP55	690	Y	50	55	1479	58	0,84	S1

Eff class IE2 — 400 V 50Hz : IE2 - 94.3(100%) - 94,3(75%) - 93,6(50%)

Resistance
Line — Ambient: 21,0 ºC
U_1 - V_1 0,06841 Ω
U_1 - W_1 0,06846 Ω
V_1 - W_1 0,06845 Ω

Insulation resistance at 54,0 ºC
5500 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		400,1	D	50	38,2	1,26		1500	0,05	
Locked rotor test		74,7	D	50	101,0	4,60		0	0,35	
Thermal test (100% load)	355,1	400,3	D	50	101,0	58,2	55,0	1481	0,83	94,4
Partial load points:										
~75% load	265,7	400,0	D	50	79,6	43,6	41,3	1486	0,79	94,7
~50% load	178,7	400,2	D	50	60,7	29,3	27,5	1490	0,70	94,0
~25% load	86,9	400,1	D	50	45,7	15,2	13,8	1494	0,48	90,7

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		63,0	1
Frame :		35,1	2
Bearing D-end :		48,7	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 4.2.2009

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

Telephone +358 10 2211
Telefax +358 10 22 47372

Computer print-out valid without signature.