Test Report

Date of issue: 4.6.2014

Serial No.: 3GF11094410

Type: M3KP 160MLC 8 IMB3/IM1001
Product Code: 3GKP164430-ADH
Protection type: Ex de IIB T4 Gb
Cert. No.: LCIE 11 ATEX 3087X / IECEx LCI 09.0008X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	7,5	718	10,5	0,70	S1
Insul.cl.F	400	D	50	7,5	718	18	0,70	S1
IP55	415	D	50	7,5	721	17,6	0,69	S1

Resistance
Line — Ambient: 23,0 °C

U_1 - V_1	0,99700 Ω
U_1 - W_1	0,99710 Ω
V_1 - W_1	0,99730 Ω

Insulation resistance at 48,0 °C
2400 MΩ 1000 V

Overload
Torque 160 % 15s

High-voltage test winding 2900 V 1 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	11,2	0,53		748	0,07	
Locked rotor test		125,6	D	50	17,9	1,81		0	0,46	
Thermal test (100% load)	99,8	400,1	D	50	19,3	9,41	7,50	700	0,71	79,7
Partial load points:										
~75% load	74,8	400,0	D	50	15,8	6,87	5,62	716	0,63	81,9
~50% load	49,7	400,1	D	50	13,0	4,58	3,75	729	0,51	81,9
~25% load	24,9	400,0	D	50	11,3	2,47	1,87	740	0,32	75,8

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		88,4	1
Frame :		52,6	2
Bearing D-end :		50,0	2
Rotor:		115,5	3
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 3.4.2012

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

Telephone +358 10 2211
Telefax +358 10 22 47372

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