Test Report

Date of issue: 4.6.2014

Serial No.: 3GF11094416

Type: M3KP 160MLC 6 IMB3/IM1001
Product Code: 3GKP163430-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	14	969	17,5	0,75	S1
Insul.cl.F	400	D	50	14	969	30,2	0,75	S1
IP55	415	D	50	14	971	29,9	0,73	S1

Eff class IE1 — 50Hz : IE2 - 89.2(100%) - 89.4(75%) - 88.0(50%)

Resistance
Line — Ambient: 21,0 °C
U_1 - V_1 0,40000 Ω
U_1 - W_1 0,40020 Ω
V_1 - W_1 0,40020 Ω

Insulation resistance at 47,5 °C
3000 MΩ 1000 V

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	17,3	0,65		998	0,05	
Locked rotor test		84,5	D	50	30,2	1,65		0	0,37	
Thermal test (100% load)	138,0	400,0	D	50	30,1	15,7	14,0	973	0,75	89,1
Partial load points:										
~75% load	103,3	400,0	D	50	25,2	11,7	10,5	981	0,67	89,4
~50% load	68,5	400,0	D	50	20,9	7,92	7,00	987	0,55	88,4
~25% load	34,4	400,0	D	50	17,9	4,23	3,50	993	0,34	82,8

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		73,6	1
Frame :		35,8	2
Bearing D-end :		39,7	2
Rotor:		92,0	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 14.2.2012

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

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