Test Report

Date of issue: 4.6.2014

Serial No.: 3GF11094428

Order No.: 599608-3
Type: M3KP 160MLD 2 IMB3/IM1001
Product Code: 3GKP161440-ADH222
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	22	2929	22,4	0,90	S1
Insul.cl.F	400	D	50	22	2929	38,6	0,90	S1
IP55	415	D	50	22	2935	37,7	0,89	S1

Eff class IE1 — 50Hz : IE1 - 91.2(100%) - 91.6(75%) - 91.0(50%)

Resistance
Line — Ambient: 21,5 °C
U_1 - V_1 0,20940 Ω
U_1 - W_1 0,20970 Ω
V_1 - W_1 0,20990 Ω

Insulation resistance at 46,5 °C
11000 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		399,9	D	50	10,2	0,70		1498	0,10	
Locked rotor test		71,3	D	50	38,7	2,04		0	0,43	
Thermal test (100% load)	71,7	400,1	D	50	38,7	24,1	22,0	2932	0,90	91,2
Partial load points:										
~75% load	53,8	400,0	D	50	29,5	18,0	16,5	2954	0,88	91,9
~50% load	35,8	400,0	D	50	21,2	12,0	11,0	2970	0,82	91,4
~25% load	17,8	400,0	D	50	14,2	6,29	5,50	2986	0,64	87,5

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		68,6	1
Frame :		23,1	2
Bearing D-end :		29,5	2
Rotor:		102,8	3
Ambient Temperature :	25,0		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

Vibration:		↓	→
	D-end	0,60	0,60
	N-end	0,40	0,30
	Axial	0,20	

Starting current (I_S / I_N) : 7,45
Locked rotor torque (T_l / T_N) : 3,02
Breakdown torque (Tb / TN) : 3,62
Pull-up torque (Tu / TN) : 2,57

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 14.12.2011

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