Test Report

Date of issue: 21.5.2015

Serial No.:

Customer:

Customer ref.:

Order No.:
Type: M3KP 160MLA 6
Product Code: 3GKP163410-ADK
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	980	8,8	0,78	S1
Insul.cl.F	400	D	50	7,5	980	15,2	0,78	S1
IP55	660	Y	50	7,5	977	9,1	0,80	S1
	380	D	50	7,5	977	15,7	0,80	S1
	415	D	50	7,5	981	14,8	0,77	S1
	460	D	60	7,5	1182	13,5	0,76	S1

Eff class IE3

50Hz : IE3-90,8(100%)-91,5(75%)-91,0(50%)
60Hz : IE3-91,4(100%)

Resistance

Line Ambient: 21,8 ºC

U1 - V1	0,7040	Ω
U1 - W1	0,7012	Ω
V1 - W1	0,7020	Ω

Insulation resistance at 23 ºC
R > 2000 Mohm 1000 V

Overload

Current	150 %	120s
Torque	160 %	15s
Speed	120 %	120s

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 j	η [%]
No load test		400	D	50	7,3	0,26		1000	0,05	
Locked rotor test		89	D	50	14,9	0,59		0	0,26	
Thermal test (100% load)	73,1	400	D	50	15,5	8,25	7,50	980	0,77	90,88
Partial load points:										
~75% load	55,1	400	D	50	12,6	6,23	5,69	986	0,71	91,33
~50% load	37,9	400	D	50	10,3	4,33	3,94	990	0,61	90,84
~25% load	19,0	400	D	50	8,3	2,28	1,98	995	0,40	86,83

Temperature rise at rated load.

	[oC]	[K]	Method
Stator winding :		30,6	1
Frame :		18,9	2
Bearing D-end :		18,0	2
Ambient Temperature :	23		2

Measurement method
1 Resistance
2 Thermometer
3 Thermocouples

These tests have been carried out on motor no. 3GV1110782960001, on date 2011-10-07
which is identical in electrical design with the above.

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

Tested by ABB AB, LV Motors, 721 70 Västerås, Sweden

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