Test Report

Date of issue: 19.11.2015

Type: M3JM 225SMA 6
Product Code: 3GJM223210-_DK
Protection type: Ex d I Mb
Cert. No.: LCIE 10 ATEX 3057X/
IECEx LCI 04.0005X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	30,0	989	32,9	0,81	S1
Insul.cl.F	400	D	50	30,0	989	56,8	0,81	S1
IP66	660	Y	50	30,0	987	33,7	0,83	S1
	380	D	50	30,0	987	58,5	0,83	S1
	415	D	50	30,0	990	56,0	0,79	S1
	460	D	60	30,0	1191	49,9	0,80	S1

Eff class IE3

50Hz : IE3-94,1(100%)-94,6(75%)-94,4(50%)
60Hz : IE3-94,2(100%)

Resistance
Line Ambient: 23,3 ºC
U_1 - V_1 0,12480 Ω
U_1 - W_1 0,12480 Ω
V_1 - W_1 0,12490 Ω

Insulation resistance at 24 ºC
R > 2000 Mohm 1000 V

Overload
Torque 160 % 15s

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 φ	η [%]
No load test		401,2	D	50	24,6	0,64		1000	0,04	
Locked rotor test		89,2	D	50	64,5	3,13		0	0,31	
Thermal test (100% load	289,6	400,0	D	50	57,8	31,8	30,0	989	0,80	94,2
Partial load points:										
~75% load	221,5	400,0	D	50	46,9	24,4	23,0	992	0,75	94,5
~50% load	150,2	400,0	D	50	36,9	16,6	15,7	995	0,65	94,3
~25% load	78,2	400,0	D	50	28,7	8,89	8,17	998	0,45	91,9

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		50	1
Frame :		40	2
Bearing D-end :		34	2
Ambient Temperature :	24		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3GV1110796911001, on date 2011-10-06 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

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