Test Report

Date of issue: 19.11.2015

Type: M3JM 225SMA 2
Product Code: 3GJM221210-_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	45,0	2972	44,5	0,89	S1
Insul.cl.F	400	D	50	45,0	2972	76,8	0,89	S1
IP66	660	Y	50	45,0	2968	46,8	0,89	S1
	380	D	50	45,0	2968	81,2	0,89	S1
	415	D	50	45,0	2974	74,0	0,89	S1
	460	D	60	45,0	3575	66,8	0,89	S1

Eff class IE3

50Hz : IE3-94,9(100%)-95,2(75%)-94,8(50%)
60Hz : IE3-94,4(100%)

Resistance
Line Ambient: 23 ºC
U_1 - V_1 0,05380 Ω
U_1 - W_1 0,05375 Ω
V_1 - W_1 0,05382 Ω

Insulation resistance at 22 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		400,5	D	50	18,3	0,82		3000	0,06	
Locked rotor test		70,8	D	50	77,2	3,40		0	0,36	
Thermal test (100% load	144,6	400,0	D	50	75,9	47,1	45,0	2972	0,90	95,5
Partial load points:										
~75% load	110,0	400,0	D	50	59,3	35,9	34,3	2980	0,87	95,6
~50% load	73,8	400,0	D	50	42,3	24,2	23,1	2987	0,83	95,2
~25% load	38,6	400,0	D	50	27,8	13,0	12,1	2995	0,68	93,0

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		50	1
Frame :		31	2
Bearing D-end :		29	2
Ambient Temperature :	24		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3GV1110779325001, on date 2011-09-20
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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