Test Report

Date of issue: 19.11.2015

Type: M3JM 250SMA 4
Product Code: 3GJM252210-_DK
Protection type: Ex d I Mb
Cert. No.: LCIE 10 ATEX 3063X/
IECEx LCI 04.0012X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	55,0	1485	56,7	0,85	S1
Insul.cl.F	400	D	50	55,0	1485	97,8	0,85	S1
IP66	660	Y	50	55,0	1482	58,8	0,86	S1
	380	D	50	55,0	1482	102,0	0,86	S1
	415	D	50	55,0	1486	95,2	0,88	S1
	460	D	60	55,0	1787	85,8	0,89	S1

Eff class IE3

50Hz : IE3-95,4(100%)-95,9(75%)-95,7(50%)
60Hz : IE3-95,7(100%)

Resistance

Line	Ambient: 22,1 ºC
U_1 - V_1	0,04910 Ω
U_1 - W_1	0,04895 Ω
V_1 - W_1	0,04915 Ω

Insulation resistance at 22,3 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		401,8	D	50	39,1	1,08		1500	0,04	
Locked rotor test		70,6	D	50	104,5	4,61		0	0,36	
Thermal test (100% load	353,7	400,0	D	50	98,9	57,5	55,0	1485	0,84	95,6
Partial load points:										
~75% load	267,0	400,0	D	50	78,7	43,4	41,6	1489	0,80	95,8
~50% load	177,0	400,0	D	50	60,1	29,0	27,7	1493	0,70	95,5
~25% load	89,9	400,0	D	50	46,5	15,3	14,1	1497	0,47	92,3

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		52	1
Frame :		35	2
Bearing D-end :		37	2
Ambient Temperature :	22		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3GV1110649673003, on date 2011-01-21
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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