Test Report

Date of issue: 25.11.2015

Type: M3JM 250SMC 2
Product Code: 3GJM251230-_DG
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	90	2965	89,7	0,89	S1
Insul.cl.F	400	D	50	90	2965	153	0,89	S1
IP66	415	D	50	90	2968	149	0,88	S1

Eff class IE2 — 50Hz : IE2 - 94,2%(100%) - 94,3%(75%) - 93,7%(50%)

Resistance
Line — Ambient: 21 °C
U_1 - V_1 0,03072 Ω
U_1 - W_1 0,03076 Ω
V_1 - W_1 0,03075 Ω

Insulation resistance at 41 °C
5000 MΩ 1000 V

Overload
Torque 160 % 15s

High-voltage test winding 2900 V 1 s

Test		Line U[V]		f[Hz]	Input I[A]	P1 [kW]	Output P2 [kW]	n[r/min]	cos φ	η [%]
No load test		400,0	D	50	32,8	2,09		2998	0,09	
Locked rotor test		77,0	D	50	153,1	6,15		0	0,30	
Thermal test (100% load)		400,1	D	50	154,2	95,5	90,0	2967	0,89	94,3
Partial load points:										
~75% load		400,3	D	50	117,0	71,5	67,5	2977	0,88	94,4
~50% load		400,0	D	50	82,4	48,0	45,0	2985	0,84	93,8
~25% load		400,2	D	50	51,7	24,9	22,5	2993	0,70	90,5

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		69	1
Frame :		35	2
Bearing D-end :		53	2
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3GF11094426, on date 2012-01-20, 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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