Test Report

Date of issue: 19.11.2015

Type: M3JM 160MLA 2
Product Code: 3GJM161410-_DL
Protection type: Ex d I Mb
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	11	2943	11,1	0,91	S1
Insul.cl.F	400	D	50	11	2943	19,1	0,91	S1
IP66	415	D	50	11	2946	18,5	0,9	S1
	440	D	60	11	3545	17,3	0,92	S1
Eff class IE3	460	D	60	11	3549	16,6	0,91	S1

50Hz: IE3-91,2%(100%)-92,0%(75%)-91,6%(50%)
60Hz: IE3-91,0%(100%)

Resistance
Line — Ambient: 17 °C
U_1 - V_1 0,48940 Ω
U_1 - W_1 0,48920 Ω
V_1 - W_1 0,48980 Ω

Insulation resistance at 70 °C
2000 MΩ 1000 V

Overload
Torque 160% 15s

High-voltage test winding 1900 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		400,4	D	50	4,84	0,32		2998	0,09	
Locked rotor test		74,3	D	50	19,8	1,00		0	0,39	
Thermal test (100% load)	35,7	400,6	D	50	19,1	12,0	11,0	2943	0,91	91,5
Partial load points:										
~75% load	26,8	401,1	D	50	14,4	8,95	8,3	2960	0,90	92,2
~50% load	17,9	400,5	D	50	10,2	5,98	5,5	2974	0,85	91,9
~25% load	8,9	401,5	D	50	6,55	3,11	2,8	2988	0,68	88,5

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		47	1
Frame :		19	2
Bearing D-end :		25	2
Rotor:		62	3
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3G1P141700170, on date 2014-05-26
which is identical in 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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