Test Report

Date of issue: 19.11.2015

Type:	M3JM 160MLA 4
Product Code:	3GJM162410-_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	11,0	1477	12,2	0,82	S1
Insul.cl.F	400	D	50	11,0	1477	21,1	0,82	S1
IP66	415	D	50	11,0	1479	20,5	0,81	S1
Eff class IE3	440	D	60	11,0	1778	18,9	0,83	S1
	460	D	60	11,0	1777	18,2	0,82	S1

50Hz: IE3-91,4%(100%)-91,8%(75%)-91,1%(50%)
60Hz: IE3-92,4%(100%)

Resistance
Line — Ambient: 21 ºC

U_1 - V_1	0,45510	Ω
U_1 - W_1	0,45480	Ω
V_1 - W_1	0,45550	Ω

Insulation resistance at 68 ºC
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		400,1	D	50	8,34	0,35		1498	0,06	
Locked rotor test		78,5	D	50	20,5	0,93		0	0,33	
Thermal test (100% load)	71,0	400,6	D	50	21,1	12,0	11,0	1477	0,82	92,0
Partial load points:										
~75% load	53,3	400,7	D	50	16,8	8,93	8,25	1484	0,77	92,4
~50% load	35,5	400,9	D	50	13,0	6,00	5,50	1490	0,67	91,7
~25% load	17,7	401,5	D	50	10,1	3,14	2,75	1495	0,45	87,5

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		38	1
Frame :		20	2
Bearing D-end :		23	2
Rotor:		51	3
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3G1P141700173, on date 2014-06-03
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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