Test Report

Date of issue: 19.11.2015

Type:	M3JM 180MLA 4
Product Code:	3GJM182410-_DL
Protection type:	Ex d I Mb
Cert. No.:	LCIE 11 ATEX 3088X / IECEx LCI 09.0009X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	18,5	1481	20,1	0,83	S1
Insul.cl.F	400	D	50	18,5	1481	34,9	0,83	S1
IP66	415	D	50	18,5	1482	33,8	0,82	S1
Eff class IE3	440	D	60	18,5	1781	31,2	0,83	S1
	460	D	60	18,5	1783	30,3	0,82	S1

50Hz: IE3-92,6%(100%)-93,3%(75%)-92,9%(50%)
60Hz: IE3-93,6%(100%)

Resistance
Line — Ambient: 24 °C

U_1 - V_1	0,25500	Ω
U_1 - W_1	0,25570	Ω
V_1 - W_1	0,25500	Ω

Insulation resistance at 85 °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		400,6	D	50	13,2	0,45		1498	0,05	
Locked rotor test		84,4	D	50	34,9	1,73		0	0,34	
Thermal test (100% load)	119,7	400,7	D	50	34,9	20,0	18,5	1481	0,83	92,7
Partial load points:										
~75% load	89,2	400,1	D	50	27,3	14,9	13,9	1486	0,79	93,3
~50% load	59,8	399,9	D	50	20,7	9,94	9,25	1490	0,69	93,0
~25% load	29,7	400,6	D	50	15,6	5,14	4,62	1495	0,48	90,1

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		57	1
Frame :		26	2
Bearing D-end :		31	2
Rotor:		70	3
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3G1P141700178, on date 2014-06-19
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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