Test Report

Date of issue: 19.11.2015

Type: M3JM 180MLA 6
Product Code: 3GJM183410-_DK
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	15,0	981	17,6	0,77	S1
Insul.cl.F	400	D	50	15,0	981	30,4	0,77	S1
IP66	660	Y	50	15,0	980	18,1	0,79	S1
	380	D	50	15,0	980	31,3	0,79	S1
	415	D	50	15,0	982	30,1	0,75	S1
	460	D	60	15,0	1183	27,1	0,75	S1

Eff class IE3

50Hz : IE3-92,2(100%)-92,4(75%)-91,5(50%)
60Hz : IE3-92,3(100%)

Resistance
Line — Ambient: 22 ºC
U_1 - V_1 0,38170 Ω
U_1 - W_1 0,38060 Ω
V_1 - W_1 0,38160 Ω

Insulation resistance at 22 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		399,0	D	50	12,5	0,37		1000	0,04	
Locked rotor test		98,0	D	50	29,5	1,38			0,28	
Thermal test (100% load	146,5	400,0	D	50	29,8	16,3	15,0	978	0,79	91,8
Partial load points:										
~75% load	111,1	400,0	D	50	23,9	12,4	11,4	984	0,75	92,5
~50% load	74,0	400,0	D	50	18,5	8,29	7,67	989	0,65	92,6
~25% load	38,2	400,0	D	50	14,5	4,42	3,98	995	0,44	90,0

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		40	1
Frame :		27	2
Bearing D-end :		23	2
Ambient Temperature :	22		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3GV1210923142001, on date 2011-05-02 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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