Test Report

Date of issue: 19.11.2015

Type: M3JM 160MLA 4
Product Code: 3GJM162410-_DK
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	1473	11,8	0,84	S1
Insul.cl.F	400	D	50	11,0	1473	20,4	0,84	S1
IP66	660	Y	50	11,0	1469	12,5	0,85	S1
	380	D	50	11,0	1469	21,3	0,85	S1
	415	D	50	11,0	1476	19,9	0,83	S1
	460	D	60	11,0	1777	17,9	0,83	S1

Eff class IE3

50Hz : IE3-92,2(100%)-93,0(75%)-92,7(50%)
60Hz : IE3-92,7(100%)

Resistance
Line — Ambient: 21,2 ºC
U_1 - V_1 0,43890 Ω
U_1 - W_1 0,44090 Ω
V_1 - W_1 0,43860 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		400,0	D	50	7,89	0,29		1500	0,05	
Locked rotor test		80,0	D	50	19,7	0,81		0	0,29	
Thermal test (100% load	71,2	400,0	D	50	20,8	11,9	11,0	1474	0,83	92,3
Partial load points:										
~75% load	54,3	400,0	D	50	16,6	9,06	8,42	1481	0,79	92,9
~50% load	35,5	400,0	D	50	12,5	5,97	5,53	1488	0,69	92,6
~25% load	18,3	400,0	D	50	9,47	3,19	2,86	1494	0,49	89,7

Temperature rise at rated load.	[°C]	[K]	Method
Stator winding :		41	1
Frame :		26	2
Bearing D-end :		25	2
Ambient Temperature :	22		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3GV1110796485001, on date 2011-10-13 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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