Test Report

Date of issue: 19.11.2015

Type: M3JM 355LKA 6
Product Code: 3GJM353810-_DK
Protection type: Ex d I Mb
Cert. No.: LCIE 10 ATEX 3089 X / IECEx LCI 04.0008X

Rating:

	V		Hz	kW	r/min	A	cos φ	Duty
3~Motor	690	Y	50	315	994	333	0,83	S1
Insul.cl.F	400	D	50	315	994	576	0,83	S1
IP66	660	Y	50	315	994	344	0,84	S1
	380	D	50	315	994	598	0,84	S1
	415	D	50	315	995	561	0,82	S1
	460	D	60	315	1195	500	0,83	S1

Eff class IE3
50Hz : IE3 - 96.4%(100%)-96.6%(75%)-96.5%(50%)
60Hz : IE3 - 96.4%(100%)

Resistance
Line Ambient: 21 °C
U_1 - V_1 0,00595 Ω
U_1 - W_1 0,00596 Ω
V_1 - W_1 0,00595 Ω

Insulation resistance at 44 °C
3000 MΩ 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	212,4	3,56		1000	0,02	
Locked rotor test		80,4	D	50	570,3	20,4		0	0,26	
Thermal test (100% load)	3026	400,7	D	50	576,3	326,4	315,0	994	0,82	96,5
Partial load points:										
~75% load	2264	400,5	D	50	452,5	244,3	236,3	996	0,78	96,7
~50% load	1514	400,9	D	50	342,9	163,3	157,5	997	0,69	96,4
~25% load	760,3	400,3	D	50	256,6	83,3	78,8	999	0,47	94,6

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		49	1
Frame :		18	2
Bearing D-end :		32	2
Rotor:		73	3
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3GF11094705, on date 2011-12-03 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

Tested by ABB Oy, Motors and Generators, Vaasa, Finland

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