Test Report

Date of issue: 19.11.2015

Type: M3JM 355SMC 2
Product Code: 3GJM351230-_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	2984	309	0,89	S1
Insul.cl.F	400	D	50	315	2984	533	0,89	S1
IP66	660	Y	50	315	2982	320	0,90	S1
	380	D	50	315	2982	556	0,90	S1
	415	D	50	315	2985	520	0,88	S1
	460	D	60	315	3586	466	0,89	S1

Eff class IE3
50Hz : IE3 - 96.4%(100%)-96.4%(75%)-95.9%(50%)
60Hz : IE3 - 96.1%(100%)

Resistance
Line Ambient: 21 °C
U_1 - V_1 0,00377 Ω
U_1 - W_1 0,00378 Ω
V_1 - W_1 0,00378 Ω

Insulation resistance at 32 °C
22000 MΩ 1000 V

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	131,5	4,46		3000	0,05	
Locked rotor test		64,5	D	50	528,9	15,6		0	0,26	
Thermal test (100% load)	1008	399,4	D	50	533,3	325,4	315,0	2984	0,88	96,8
Partial load points:										
~75% load	761,7	400,2	D	50	407,6	244,1	236,3	2988	0,86	96,8
~50% load	505,9	400,9	D	50	291,1	163,5	157,5	2992	0,81	96,3
~25% load	251,8	401,5	D	50	191,1	83,7	78,8	2996	0,63	94,1

Temperature rise at rated load.

	[°C]	[K]	Method
Stator winding :		62	1
Frame :		26	2
Bearing D-end :		33	2
Rotor:		86	3
Ambient Temperature :	25		2

Measurement method
1 Resistance
2 Thermocouples
3 Thermometer

These tests have been carried out on motor no. 3GF11094700, on date 2012-02-24 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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